je Kining Immal,

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 1734.—Vol. XXXVIII.

LONDON, SATURDAY, NOVEMBER 14, 1868.

STAMPEDSIXPENCE, UNSTAMPED..FIVEPENCE

MR. JAMES CROFTS, STOCK AND SHAREBROKER,
No. 1, FINCH LANE, CORNHILL.
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New Whelal Lovyell is attracting much attention, they having been largely sold to the Cornish people. The shares are worth 22s. 6d., and the report, which arrived on Thursday last, gives the total value of the different ends as £115 per fathom, and last week they sold ore to the value of £515, which left a profit on the month's working. The mine must very soon come to dividends.

SOUTH GREAT WORK is spoken of very favourably, and the shares are very cheap at 7s. 6d. to 10s.

At Chiverton Mine the recent discovery appears of a permanent character, and is likely further to enhance the importance of this rich lead district. The shares are £446. Chiverton Valley should be bought for an advance. SPECIAL BUSINESS in the above-mentioned mines.

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has FOR SALE the following shares, free of commission:—
60 Australian United
(Gold), 17s. 6d.
50 Anglo-Brazilian, 13s.
15 Brynpostig, £2.
50 Bryn Gwiog, 7s. 6d.
20 Chontales, £234.
15 Chiverton, £44.
20 Chontales, £234.
16 Chiverton, £44.
20 Caru Camborne, 14s 9
70 Drake Walls, 16s. 9d.
20 Don Pedro, £3 18s 9d.
30 E. Wh. Russell, 10s.
30 For Princes of Wales, 39s 6
35 E. Wh. Russell, 10s.
30 Pestarena, £1 1s. 3d.
30 Pestarena, £1 1s. 3d.
30 WM. Drace Walls, 21s.
31 WM. A. R. D.

W. M. W. A. R. D.

W. M. W. A. R. D.

. W I L L I A M W A STOCK AND SHAREDRALER, No. 29, THREADNEEDLE STREET, LONDON, E.C. WARD,

M ESSRS. WILSON, WARD, AND CO., STOCK AND SHAREDEALERS, 16, UNION COURT, OLD BROAD STREET, LONDON, E.C.

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Mr. HUME will give the full market prices for the following shares, viz.—
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PARTLETT AND CHAPMAN, STOCK AND SHAREDEALERS, 2, BUCKLERSBURY, LONDON. E.C., are in a position to impart special information to intending purchasers in Wheal Chiverton, Great South Chiverton, East Chiverton, Lovell Consols, Tamar Valley, Trumpet Consols, and Royaiton Mines.

LOVELL CONSOLS.—The winze in the adit has been drained by the 12 fathom level, and on Thursday they commenced sinking on the lode, which is 2 feet wide, and worth from £20 to £30 per fathom.

NORTH JANE.—Shares should be secured; they will have a speedy advance. It must be remembered that this mine has the same lodes as Wheal Jane, which advanced within the last few months from £2 to £40 each, and will have a still further rise. Tin in rising, and we recommend our friends and clients to watch properties of this kind.

Our "Investment Circular" forwarded on application.

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Messrs. WARD and JACKMAN are DEALERS in all the above at the close market price of the day.

Messrs. WARD and JACKMAN have daily information from the principal seat of mining, which is at the service of those who may honour them with their confidence. mindence.
Messrs. WARD and JACKMAN beg to refer to their remarks on p. 809.
Fov. 13.
Bankers: London and Westminster, Lothbury.

MR. C. A. POWELL, SHAREDEALER, 78, OLD BROAD STREET, LONDON, E.C. Transacts BUSINESS as BUYER or SELLER in the various shares currently

Transacts Busianess
dealt in at net prices.
Parties dealt with at a fair margin on the market price,
Bankers: City Bank, Finch-lane.

Bankers: Čity Bank, Finch-lane.

M. R. WILLIAM MARLBOROUGH, 1, GREAT ST. HELEN'S, BISHOPSGATE STREET, LONDON, E.C. (Established 14 years), has FOR SALE the FOLLOWING SHARES, at net prices: 50 Anglo-Brazil., 10s. 5d 2 Herodsfoot, £46½. 2 W. Frances, £33 18s 9 20 Caldbeck Fells, 11s 9d 5 Marke Valley, £9½. 30 Chointales, £2 16s 3d 20 North Downs, 15s. 9d, 10 Chiver, Moor, £6 6 3 20 North Downs, 15s. 9d, 10 Chiver, Moor, £6 6 3 20 North Crofty, 32s. 9d, 10 Chiver, Moor, £6 6 3 20 North Crofty, 32s. 9d, 10 Chiver, Moor, £6 6 3 20 North Crofty, 32s. 9d, 10 Chiver, Moor, £6 6 3 20 North Crofty, 32s. 9d, 10 Kitty (St. Agnes), £3% 20 Don Pedro, £3 3 9 pm 2 Providence, £27½. 20 Port Phillip, 41s. 5 East Caradon, £33½, 5 Stay Park, £7½, 5 Frank Mills, £3 6s 9d 50 Tamar Valley, 50 Frontino, 14s. 6d, 5 Tincroft, £16. 2 Great Wb. Vor, £13½ 1 Wt. Chiverton, £62½, 20 Yudanamutana, £½4 And is a BUYEE of Stray Park, West Godolphin, cwm Erfin, East Darren, and Cargoll shares at market quotations.

MR. GEORGE BUDGE, STOCK AND SHAREDEALER, M. No. 4, ROYAL EXCHANGE BUILDINGS, LONDON, E.C. (Satablished 20 years), is a SELLEB of:—30 Colquite and Callington United, £2 2s. 3d.; 25 North Downs, 12s. 3d.; 20 Wheal Grenville, 28s. 6d.; 30 Drake Walls, 16s.; 50 West Drake Walls, 7s. 9d.; 100 West St. Ives, 5s.; 2 West Chiverton, £68%; 1 West Seton, £196; 10 Chiverton Moor, £6½; 25 Rose and Chiverton United; 110 Princess of Wales, 5s.; 45 West Wheal Kitty; 20 North Treakerby, 9s.; 80 Camborne Vean, 10s.; 25 North Chiverton; 40 East Cara Brea, 9s.; 100 Red-moor, 3s. 3d.; 2 West Caradon, £5 (call paid); 35 Caldbeck Fells; 56 Great South Chiverton; 5 East Lovell, £5%; 110 Lovell Consols; 4 Stray Park, £5; 95 Tamar Valley; 80 Gwydyr Park, 4s. 3d.; 50 East Chiverton; 5 Mass-y-Safin, £24; 50 Okel Tor: 60 Taquaril Gold.

SPECIAL BUSINESS in Devon Great Consols, Great South Chiverton, Cape Copper, Colquite and Callington, Royalton, South Herodsfoot, West Wh. Kitty.

ORNISH AND FOREIGN MINES.

PETER WATSON'S "WEEKLY MINING CIRCULAR AND SHARE LIST—SYNOPSIS OF CORNISH AND DEVON MINES." of Friday, Nov. 13, No. 508, Vol. X., price 6d. each copy, forwarded on application, contains information on the following mines:—Chiverton.

Wheat Jane.

Wheat Jane.

Wast Chiverton.

Wheat Uny.

Wast Chiverton.

Wheat Uny.

Program United.

Ding Dong

Wheat Jane.
West Chiverton.
East Wheal Seton.
North Wheal Crofty.
West Great Work.
South Great Work.
Botallack.

North Roskear. Wheal Uny. Prosper United. Wheal Mary Ann. North Wh. Chiverton. Tincroft. West Great Work.
South Great Work.
Trumpet Consols,
Botallack.
Dolcoath.
Stray Park.
Clifford Amalgamated
West Wheal Seton.
With Remarks on Tin, Copper, and Lead Mines.

Cargoll.
Ding Dong.
Great Wheal Vor.
Great Laxey.
Great North Laxey.
West Caradon.
Wheal Buller.
New Wheal Lovell.
Marko Valley.
Wheal Trelawny.
Chontales.

The state of the s

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6, Bond-court, Mansion House, Londouf EC.

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Mr. CHRISTIAN recommends the immediate PURCHASE of NORTH LEVANT SHARES, whether bought to hold as an investment or to sell again. It is a splendid property, and dividends are close at hand. Although Mr. CHRISTIAN is the only person publicly recommending the purchase of shares in this sett, he does so with the greatest of confidence, feeling assured that those who buy now will do well.

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Caldbeck Fells.
East Caradon.
Chiverton.
East Basset.
Frontino and Bolivia.

West Chiverton.
West Ston. Carn Bres Great Wheal Vor. Wheal Agar. Cook's Kitchen. Devon Consols. East Grenville. Marke Valley. North Downs. North Roskear South Caradon Wheal Crebor.
Wheal Grenville.
Wheal Seton.
Wheal Uny.
ecting Prince of Wales, Chiverton

South Caradon.

T. R. is in a position to give advice respecting Prince of Walca, Chiverton, and Chiverton Moor Mines, having had these three properties inspected again this week. Parties desirous of dealing in these shares should consult T. R. at once, as money can be made by acting in the right way. I have hitherto been right in my opinion of these mines, having inspected them myself with other

ents. ioney advanced to any extent on good mining shares. Se hours Ten to Four. Bankers : Bank of England

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takings of this character, should read HANNAM and Co.'s JUNE CIRCULAR. Investments may now be made on peculiarily favourable terms in Idaho and Nevada respectively, the richest gold and sliver producing districts as yet discovered. The properties noted have been carefully selected and reported on by tried and well-known English agents, and will yield early returns.—Full particulars with JUNE CIRCULAR on application.

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Prince of Wales, £1%; 5 North Levant; 100 Lucy Phillips, £2%; 50 West Godolphin, 21s.; 50 Tamar Valley; 10 Rose and Chiverton; 50 East Keeth, 20s. 2d.;
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Bottle Hill, 1s. 9d.
BUYER of 50 Frontino, 100 Royalton, and 50 Lucy Phillips.
CHIVERTON VALLEY.—I can only repeat my last advice—time files.
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MR. WARINGTON SMYTH'S LECTURES.

[FROM NOTES BY OUR OWN REPORTER.] LECTURE I.—Mr. SMYTH (who was received with applause by a more numerous class than has been usual in the last year or two) said—I have great pleasure in commencing this series of sixty lectures on the subject of MINING, although it is a more extended course than most of those delivered in this place, and might seem unnecessarily long to those who have not seen anything of mining practice; but we must remember that it is a subject of great importance, which thoroughly to master would oblige us to go into details to fully three times the extent we shall, even with sixty lectures. ance, which thoroughly to master would oblige us to go into course to fully three times the extent we shall, even with sixty lectures have the opportunity of doing. The vast importance to the community of mining enterprise and operations in England cannot be more nity of mining enterprise and operations in the mineral statistics lately intro of mining enterprise and operations in England cannot be more forcibly shown thank by a reference to the mineral statistics lately published by Mr. Hunt. His figures give a notion, in a few buf expenditude of the control of t ing lectures on the subject, must not be misunderstood. They will not make up for want of experience; but it may be expected that if we have placed before us in a short time and in a clear manner the facts otherwise only to be learned by experience, a great saving of time will be gained, and by bringing a proper amount of industry and attention to the work as much may be learned in twelve months as would otherwise take five years to acquire. Knowledge so obtained may not be so impressed upon the pupils' minds, but it is most desirable that they should be acquainted with all the known facts touching the art of mining, which have resulted from the experience of other countries as well as that of our own. This is important, for there is now a great deal of time and money wasted in trying experiments which have already been worked out in other districts and countries, and of pursuing year after year systems which have been either superseded or greatly changed for the better elsewhere. I can now only just glance at the difficulties which beset the path of the miner, and point out how needful it is that he should be acquainted with the different classes of minerals which are associated together. This was a point so little attended to informer times that minerals of great value were entirely neglected, thrown into the rubbish heap, and so mixed up with valueless substances as to render it impossible to get them back again. It happened unfortunately that it was the custom to attribute special metals only to certain districts—as, for instance, this and copper to the western countles, coal to certain coal fields, and so on; so that those whose education was purely practical, and obtained on the spot, very seldom had an opportunity of making themselves acquainted with the minerals of other districts, and hence these great losses. It is, therefore, greatly to be desired that local establishments of a selentific character, with proper museums and repertories of mining appliances, should be founded, where may be learnt not o

beading, only a great amount of industry, and special education. Again, take the past depths to which many so mit not have presented, but the their counts of the count of the

LECTURE II.—Having in my last lecture simply led the way to an enquiry into the character of those accumulations of minerals the miner has to study and work for, and pointed out that after doing so every prudent adventurer would see to the conditions under which no different countries the right of mining was acquired—that being in the early days of mining the ceding of a small portion of ground to the miner, and in more modern times, in consequence of the greater capital employed and greater risks to be run, greatly increased the areas—it is necessary to give some idea of the proportion of gains demanded from the worker by the proprietor or lord of the soil for permission to work, which is called a "royalty." In ancient times, when the work was carried on near the surface of the ground, and with much facility, a great proportion of the mineral used to be put aside (and frequently in a raw state) for the use of the proprietor. This is still the practice in many eastern countries, where it often happens that the avarice of the proprietor acts as an interdict against all enterprise, and in some cases one-half or one-third of the mineral raised is so claimed. It is evident in cases of this kind that the relation between the proprietor and the miner is very like that of the glant and the dwarf in the old fable, in which the glant sent the dwarf to all the flighting, and kept all the soild pudding for himself; just as in this case the proprietor undertakes no risk of expense, and puts himself to no trouble, but takes the larger share of the profits, leaving to the miner all the expense and risk. In modern times, however, and in western countries, the royalty is very much diminished. The deeper the mine, and the greater the doubtfuiness of the undertaking, the more will this be found to be the case. With regard to metallic minerals, it is usual for the lord to receive a certain proportion of the mineral in a dressed state ready to go to market, or of the money for which it is sold; and while in the North of England, where the old custom prevalls, one-fifth is sometimes taken as the amount of royalty; in most in different countries the right of mining was acquired—that being contains the solution and white the solutions taken as the amount of royalty; in of the northern districts it is one-seventh, one-tenth, or one-twelfth; in the districts the average "dish," or share of the lord, is one-fitteenth. In the nines of Cornwall, however, which require such a wastexpenditure, and so

an amount of machinery to unwater them, and so are worked at great depths, an amount of machinery the last two years, in which there has been or great a pressure or the mining interest (which, I am happy to think, is now lesseling), the more liberal uniting interest (which, I am happy to think, is now lesseling), the more liberal uniting interest (which, I am happy to think, is now lesseling), the more liberal uniting interest and the state of the state of

mignt become useful. Its, then, only within certain limits that we can feel any certainty of meeting with the same beds in the same condition of productiveness. [The lecturer then exhibited a variety of models, which showed a considerable number of different forms of stratification.]

We will next consider for a moment how far the beds are liable to interruption, and how far the miner may guard himself against disappointment and loss. It does not follow that because your neighbour has a good seam you will be sure to find that coal under similar circumstances. Coal seams are very apt to vary in a considerable area, and to become stony, to burn with difficulty, and then, perhaps, not burn at all. The reason is difficult to explain, but it is not unusual to find a sort of clayey stone mingling with the coal. It may still be carbonaceous, and there may be a great deal of carbonate of iron in it, so that it appears as if it were undergoing a process of change into ironstone. If a piece of this material be thrown into the fire it will be found that the ashes form all great deal of refuse, and its red colour will be found that the ashes form all great deal of refuse, and its red colour will be found that the ashes form all great deal of refuse, and its red colour will be true that sort of thing will extend. Again, there are cases in which a layer of sandstone as thin as a knife blade at first will gradually enlarge until it quite interferes with the working of the seam. Occasionally, if the seam be large, it may be so divided in this way that the upper and lower portions will have to be worked separately, becoming for all practical purposes two seams. In some districts it is not uncommon to come upon partings of sandstone 8 or 16 feet thick, in the midst of the seam of coal. There are other interruptions which I need scarcely mention, but you will see that such mishaps may easily be of an extent which would avoid the evil fate of those who take everything just as it appears before them. Beds of stone vary in the selfs

the profitable working of some stratified deposits. [The lecturer then exhibited a number of drawings illustrative of various classes of disturbances, several of which he had sketched himself from actual observation on the spot.]

Another great difficulty arises from throws or heaves, as they are called. In these cases the series of beds appear as though they were cut in two, and the end where the severance takes place is either raised or depressed. Thus the miner may be following a seam or lode with great success, when all at once, without any warning, it suddenly disappears, and he comes upon the barren country. The question then is, what has become of the seam? It will generally be found on a close inspection that on the upper or lower side there will be what miners call "smut," that is a little powdered coal, as it were, indicating the direction they should go. If this di-locating plane is diplping towards them they know they will have to go downwards to find the seam. If you ask to what extent these upheavals or depressions take place no answer can be given, as they vary from a few inches up to a hundred yards, and there are cases in Lancashire where 3000 feet is the amount of dislocation. The workmen seldom fall to find the seam again, but these dislocations put the miner to much profites a labour and inconvenience. There are certain cases, however, in which this rule is incorrect, where the fault is reversed, as it were. A remarkable case of this kind had been found to exist at Boiton le Moors, a drawing of which (exhibited) had been sent by a former student. (Cheers.) Care must be taken not to mistake lamination for stratification. In many deposits, and particularly in those of slate, the plane of cleavage will sometimes be found to be at right angles with the natural stratification. In many deposits, and particularly in those of slate, the plane of cleavage will sometimes be found to be at right angles with the natural stratification. In many deposits, but he taken not to mistake lamination for stratif

NORTH OF ENGLAND INSTITUTE OF MINING ENGINEERS.

The interest felt in the general meeting of this institution, held on Saturday, was much enhanced by the admirable inaugural address of the President (Mr. George Elliot), the Conservative candidate for North Durham. After lucidly tracing the history of the institution from its establishment in 1852 to the present time, he expressed the hope that many of the subjects which have been explored, but not exhaused, by the society would be treated again and again, and that other

hope that many of the subjects which have been explored, but not exhaused, by the society would be treated again and again, and that other changed and the control of the preservation of the lives and health of those working underground. Nothing can be more important or more interesting to us than this. The ventilation declared the presence of ventilation by the aid of machinery, is a subject claiming our carried and the control of the co

into the cost, and exhausting itself by that means. He had, however, the satisfaction of knowing that their labours have not been altoseiber loss greater from the control of the polity inicates that he has been engaged in practical work connected with mining for a period of not less than two years, may matriculate after keeping three terms of residence in the University—that is, he may pursue practical work either as an articled pupil or a colliery viewer, and may then go up, and by studying steadily for eight months, fit himself for a public examination, and to compete for the prizes offered by the University. It is impossible to exaggerate the importance of this concession to the hard-working, capable mining engineer, whose experience has hitherto been of a practical rather than a scholastic kind. In no calling in the world is the lack of scientific education more severely felt. Without it, the most complete practical knowledge falls short of it a lam; with it, no position is shut out from the intelligent and industrious aspirant. Without hit, the most complete practical knowledge falls short of its alm; with it, no position is shut out from the intelligent and industrious aspirant. With ordinary application these eight months study at the Durham University would fit most of our clever and intelligent young men for positions which no amount of mere pit-knowledge would entitle them to look for, for there is in the mining engineer's calling a certain border line, or debatable land, which the uneducated or the defectively educated have enormous difficulty in passing. The qualities without which no mining engineer is fit for the trust imposed upon him must be supplemented by scientific acquirement before he can hope for the first rank in his profession. He had in his life throw a during his profession. He had in his life known admirable men kept back through the want of the very knowledge which the facilities he then proclaimed would have placed within their grasp; and as a twelvemonth's study may now be aspired to by any intelligent pit worker—from pony lads upwards—who chooses to display energy, and exercise self-denial, he hoped to see the time when this term of University study will be rega

documents, a corporate connection with the Institution of Civil Engineers should be looked for; that the scholastic advantages offered to them by the Senate of the University of Durham should be secured; and that they should thus follow to their legitimate conclusions the principles they were united together to uphold, and the aims it was their first duty to promote.

INSTITUTION OF CIVIL ENGINEERS.—This Association will com-INSTITUTION OF CIVIL ENGINEERS.—In Its Association will com-nence its fity-second session on the evening of Tuesday, the 17th instant, when paper "On Lighthouse Apparatus and Lanterns," by Mr. David M. Henderson, assoc. Inst. C.E., is to be read. During the recess the premises in Great George-treet have been rebuilt and greatly enlarged, the meeting room alone being twice he size of the former one, and capable of accommodating nearly 400.

SOCIETY OF ENGINEERS.—On Monday evening there will be a dis-cussion on the paper "On Modern Gas-works at Home and Abroad," read on Nov. 2, by Mr. Henry Gore.

Original Correspondence.

THE WEATHER, AND COLLIERY EXPLOSIONS.

THE WEATHER, AND COLLIERY EXPLOSIONS.

SIR,—In last week's Mining Journal a letter appeared from Mr. T.

L. Plant, of Birmingham, pointing out that twelve months ago he had warned Inspectors of collieries and others as to atmospheric influence. With all due respect for that gentleman, I must beg permission to say that earlier than the period of time he mentions—that is to say, on March 1, 1867—I stated in my report to the Right Hon. the Secretary of State all that was then necessary as regards atmospheric and cosmical conditions. Moreover, when the period again came round for communicating the usual annual records of my district, I went into the matter at still greater length in my report of Feb. 29, of the present year.

Feb. 29, of the present year.

The oscillations of barometrical pressure and of temperature have been known to mining engineers for a great length of time, and I have no doubt but that the due study and consideration of those phenomena have during the last twenty years enabled viewers and Inspectors of Mines to take such steps as have been the means of saving very many valuable lives in our most fiery collecties.

Clifton, Nov. 9.

LIONEL BROUGH.

THE COAL SUPPLY, AND THE GOVERNMENT INSPECTION OF SOUTH STAFFORDSHIRE.

SIR,—Under the signature of "Observer," some friend of the Mines Inspector for this colliery district has written you a letter, as a reply to mine of the previous week, and to the one which called it forth, that you printed on Oct. 10. As to the one last mentioned, I have no doubt that its author could, if he should think fit, defend his epistle from the charge of being "a long series of vague statements." It was because that letter seemed to me to be the very opposite of vague statements, that it afforded me gratification, and was induced to back it up by your courtesy in the letter of Oct. 24. The facts stated were not vague: they were simple recitals of what is being done here, showing that there is much vitality in the district, arising out of the extent of the weakers in the which seed at one time thought to be used so in our being tent to which coal, at one time thought to be useless, is now being profitably and extensively worked. Those facts I regard as little short of a complete reply to Mr. Baker's assertion that "within a few years" the present rate of out-put will "completely exhaust the supply, so far as the coal can be wrought for the purposes of iron manufacture." The letter of October 10 shows that such a phrase as "within a few years" is altogether inaccurate, as applied to the period at which the years" is altogether inaccurate, as applied to the period at which the coal of this district will avail us for making iron. This I too maintain; and because the contrary was asserted by a Government officer, having the charge of the district, I, as one deeply concerned in its prosperity, complain very earnestly. It is true that that Government officer explains that "there will, however, still be thin seams of coal left, suitable for domestic use;" but in making the explanation he shows that he is unaware of the extent to which these same "thin seams of coal" are being worked and used "for the purposes of iron manufacture" in South Staffordshire. That they are being used in a large and increasing degree will be remembered by those who read the letter of the Coal and Ironmaster (that of October 10), who first drew attention to Mr. Baker's alarmist statement.

Such an assertion as Mr. Baker has ventured upon, and which was repeated in the Supplement to the Journal of Oct, 31, are extremely prejudicial to the commercial interests of South Staffordshire, unaccompanied, as they are, by any statement of the increased and in-

prejudicial to the commercial interests of South Staffordshire, unaccompanied, as they are, by any statement of the increased and increasing knowledge we possess of the means of utilising fuel before thought worthless, and unattended by any hint as to the probability of there existing sources of supply yet untapped, which there are few of us here who do not believe to exist. In my former letter I compiained of the baldness and the crudity of the statement, and ventured to point to one of the many ways in which, in the matter of our future supply, Mr. Baker might have served this district in his official capacity, instead of continuing to do that which, from the pertinacity of the effort, one would think that he is solely paid for. Upon this "Observer" says that Mr. Baker knows his place and duty far too well, and has what we can only describe as too abject a deference for that awful something which he denominates the "executive," ever to think of making any useful suggestions, and that it is quite out of his line to propose that the Government should be requested to make some trials to find coal under the Permians, so that we might have some little official comfort about the snound be requested to make some trials to find coal under the Permians, so that we might have some little official comfort about the future of our district. Can there be a keener satire upon the genus "Government official" than is here unfolded as to the views of the Inspector in regard to his duty? Mr. Baker would have us believe that his sense of duty is so severe that he would rather see the whole of South Staffordshire "go to the dogs" than risk a snubbing from the executive, by being deemed a little too forward in making a suggestion to them, with a view to the saving it from that calonity.

the executive, by being deemed a little too forward in making a suggestion to them with a view to the saving it from that calamity. This is red-tape twaddle with a vengeance.

The real truth of this coal supply question is stated in a communication upon the "Iron and Coal Trades," which appears in the Wolverhampton Chronicle of to-day, from which I have copied the following: "The question of the duration of the coal supply of South Staffordshire is one that is now causing a good deal of attention here, in consequence of the alarmist views of some parties, who speak with authority on such a subject. On oneside it is asserted that in a comparatively short time the vast thick coal deposits of South Staffordshire will be practically exhausted, and its mineral position very much deteriorated. On the other, various arguments are adduced to show that there are ample stores of fuely et untouched, and that a great development will yet take place in several directions. The alarms and views about the decline of South Staffordshire have been heard so often that, people have got to take very little notice of them. There is plenty of vitality about the district yet, if matters are only well managed; but, of focurs, we cannot have the eake and eat it, and the great treasures which the district once possessed must now be to some extent wearing away. Like most other matters, in this case the truth, probably, lies midway between the two extremes. There is sufficient reason for the greatest economy to be exercised in using the coal we have left, but no immediate fears need be entertained that we shall suffer much inconvenience at present from a searcity of coal."

As to the same subject, and in respect of what we are doing here

As to the same subject, and in respect of what we are doing here to make the best of what we possess, let me add this extract from a report in the same newspaper of a communication respecting South

report in the same newspaper of a communication respecting South Staffordshire, read at the Social Science meeting, in Birmingham:—
"In the year 1865 the Inspector of Mines for this district reported 540 collieries in operation, yielding 10,206,000 tons of coal, and employing 26,620 persons. The unexampled commercial prostration which has prevalled since that time has prevented much recent progress in the development of the district. Some attention has, however, been, and is still being, practically given to the economic working of the mines, combined with increased safety and comfort of the miners, and antiquated methods of extraction, by which a large amount of fuel was irrevocably lost to the nation, are gradually being superseded by a more enlightened policy, dictated rather by the teachings of science than by the prejudice of ancient custom. Mr. Hull estimates the original quantity of coal in South Staffordshire to have been 3,672,000,000 tons, of which about 970,000,000 tons is still ungotton. At the present rate of working the coal within the present acknowledged boundary the coal field will be exhausted in about 100 years."

Mr. Baker seems to attach more significance to my dissent from his rough-handed style of dealing with certain other subjects embraced in his report than he does to the question, which I regard as of paramount interest. Upon this I will say very little; but, if you will allow me, what I do say shall be pointed, and I will venture to assert that it will express the sentiments of 90 out of every 100 of

sert that it will express the sentiments of 90 out of every 100 of sert that it will express the sentiments of 30 out or every 100 of the coalmasters and mine agents of the district in which Mr. Baker is the Government representative, "Observer" thinks it very extraordinary that while Mr. Brough expressed a strong opinion adverse to the butty system he should, nevertheless, have had a dinner and a claret jug given him on his retiring from the district. But this fact presents no ground for surprise, for Mr. Brough always wrote, spoke, and acted as a gentleman, nor was he forever revolving in his mind schemes to increase the severity of "pains and penal-

ties," hence he was honoured and trusted. If Mr. Baker should not find himself so honoured are trusted by the class who honoured and trusted Mr. Brough, I really must trouble him to draw the inference which such a state of things must suggest to his mind.

ANOTHER COAL AND IRONMASTER,

South Staffordshire, Nov. 4.

MINING LEGISLATURE.

MINING LEGISLATURE.

SIB,—Judging from the questions recently put by the leading members of the South Yorkshire Miners' Association to the candidates now before the West Riding electors, it appears evident that the new Parliament will be called upon to legislate in the interest of the working colliers. The main objects to be asked for will be the appointment of a number of sub-Inspectors, with a view to the more rigid inspection of mines, limiting the working hours of boys under 14 years of age to eight hours per day, and the compelling of the weighing of all the minerals raised by the standard weights of the country. All the candidates agreed to support any Bill which would include the above propositions.

With regard to the appointment of sub-Inspectors, it is admitted that the present number of Inspectors is insufficient, considering the that the present number of Inspectors is insufficient, considering the extent of their districts, and the number of collieries in them. At the present time what is termed inspection is not that inspection according to the ordinary, and generally accepted, meaning of the word. Inspectors seldom or never visit a colliery until after some serious accident, or complaint made with regard to the ventilation or mode of working. But what appears to be really wanted is a system of inspection which will tend to the prevention of accidents, and if that can be done it will indeed be a benefit to the working collier. In any scheme which may be introduced it is felt that no share of the responsibility at present devolving on colliery owners should be responsibility at present devolving on colliery owners should be reany scheme which may be introduced it is felt that no share of the responsibility at present devolving on colliery owners should be removed from them. It is also considered by those best acquainted with the working of mines that it would be injudicious to employ men of a lower professional standard then the present Inspectors in increasing inspection. Mr. C. Morton, a good authority, states that an addition should be made to the number of Inspectors, believing that the appointment of sub-Inspectors would, in all probability, tend more to weaken than strengthen the authority of the Inspector. In Yorkshire, where the Inspector has more than 400 collieries in his district, many of the most extensive have not been inspected for years. At many of the most extensive have not been inspected for years. At the unfortunate Oaks Colliery it was stated that up to the time of the accident the Inspector had not been down it for several years, and it is just probable that had he been down a short time before the accident took place the terrible catastrophe of 1866 would have been averted. I, therefore, agree with the gentleman named, and also with the late Select Committee on Mines that the present number of with the late Select Committee on Mines, that the present number of

With regard to the proposition for lessening or limiting the working hours of boys in mines who are under 14 years of age to eight per day, something could be said on both sides. Lord Milton and other cansomething could be said on both sides. Lord Milton and other candidates, however, gave an affirmative reply as to the voting for it. The Select Committee in noticing the question, and giving it a lengthened and careful consideration, could not recommend any greater restriction than at present existed. No doubt, whereas in most parts of Yorkshire the adult miners only work eight hours perday, it would be hard to require boys to work more; and we believe that, as a rule, they do not. In other districts where the men work longer hours it would cause no inconsiderable inconvenience, and even loss in wages

to the lads themselves.

The weighing of all coal brought to the pit's bank by the standard The weighing of all coal brought to the pit's bank by the standard weight appears to be alike fair to master and workmen, and I cannot see how there can be any objection to it. Where the system is at present in force we know that it works well and satisfactorily; and, although I do not desire to see the legislature passing exceptional laws for one particular business or trade, I still believe that a measure giving the miners the right of having the mineral which they raise weighed by the standard weights of the country would be generally acceptable, and remove one cause of dissatisfaction felt by many of the workmen. many of the workmen.

oking at the tone in which the above matters were spoken of by the various candidates, it is evident the forthcoming session of the new Parliament will see many of the suggestions of the Select Committee, as well as others, having for their object the benefit of the mining community and the safe working of mines, passed into law.

MECHANICAL VENTILATION.

MECHANICAL VENTILATION.

SIR,—It appears to me that the system of ventilation proposed by Mr. Jonathan Harrison, of Nottingham, is much misunderstood by colliery engineers generally, the natural consequence being that many unnecessary objections to its adoption are raised. Now, it must be evident to all that the great object Mr. Harrison has in view is to ventilate his mine by an auxiliary power in the event of an accident depriving it of the ordinary means of ventilation. Three fans, each 30 ft. diameter, and driven at 150 revolutions per minute, would produce an admirable current of air, and if he could get through that amount of work with even two 10-horse power engines (it is understood that he intends to try a couple, of 5-horse power each) the system would still be sufficiently economic to admit of its general adoption. One gentleman remarks that it would be an improvement to have an equal number of upcast and downcast shafts; he suggests four of each, and upon this point there cannot, I think, be two opinions—the colliery would, by combining the results promised, be absolutely safe. If three fans will give 505,440 cubic feet of air per minute, it is a matter of mere calculation to prove that eight fans would give 1,347,840 cubic feet per minute—a quantity which would, in my opinion, have prevented even the Oaks explosion. It will be observed that in this calculation I have adopted Mr. Harrison's very simple and satisfactory view, that the number of cubic feet per revolution is uniform at all velocities, which would be rather against him than otherwise, as it is well known in practice that a speed may be chosen which will give maximum results, and that by ascertaining this speed the ventilating power of a number of fans, which run at uniform speed would only give the quantity named, might be enormously increased. uniform speed would only give the quantity named, might be enor-

It is very truly remarked that the machinery belonging to fans is so simple, and usually so well constructed, that it will work well for months together, when properly oiled and greased, without any accident, and with but little attention, and I quite admit that the use of fans in the manner proposed may be new, but the principle of applying machinery at both upcast and downcast shafts is certainly not so, Mr. Matthias Dunn having suggested it fully a quarter of a century since; his proposition, however, was to apply cowls upon each shaft, with vanes to keep the mouths with and against the wind respectively. Another objection raised against Mr. Harrison's project is that the direction of the air is not so clearly defined as it might be, but this also answered by the circumstance that the arrangements are intended to meet exceptional cases, so that it is necessary to provide for the passage of the air in all directions, as, of course, assuming an explosion to have occurred, all the doors and stoppings (the number of which is much increased by Mr. Harrison's arrangement would be blown out and to attempt to regulat the course of ment) would be blown out, and to attempt to regulate the course of the air would be useless. This the inventor evidently foresees, and it is for this reason that he provides for the entry of over a million of cubic feet of air per minute to ventilate the working. D. R. J.

THE LATE WATER EXPERIMENTS AT PLAISTOW.

SIR,—As the majority of your readers may not be aware of the facts relating to the late water experiments at Richmond Villa, perhaps you will kindly permit me to offer a few words in explanation. During the past summer my own family, as well as my tenants, were seriously inconvenienced for the want of a better supply of pure water, and I, therefore, determined to remedy the evil by not longer subjectand I, therefore, determined to remedy the evil by not longer subjecting myself to the East London Water Company on the one hand, or the Abyssinian Tube Well on the other;—the former, in my opinion, not being good water, and the latter had been proved to be a failure in the immediate locality.

On learning that Watson and Baker's newly patented invention had

On learning that Watson and Baker's newly patented invention had been tried and approved by Her Majesty's Government Inspectors, I applied to those gentlemen for their terms, and having obtained them, gave orders for one of their pumps to be placed in my grounds, which, I am happy to be enabled to state, is a complete success. I shall in

future be relieved from all water rates, which will be a considerable saving, as the charge for these said pumps is exceedingly moderate, and when once fixed, no further inconvenience or outlay is required. On public grounds, therefore, I feel it my duty to attest the accuracy of the very impartial report in your Journal of October 31.

Upper Plaiston, Nov. 9. W. H. WORTH.

MANUFACTURE OF IRON AND STEEL

-In the paper "On Iron and Steel" by the Messrs. Hinde, which appeared in last week's Journal, there are certain passages which call for some remarks. It was in 1848, not 1856, that I first introduced spiegeleisen to British metallurgy, and so little was it then known in this country that at the Custom House it was passed as spelter, and only one British ironmaster, the late Mr. S. H. Blackwell, had any

only one British ironmaster, the late Mr. S. H. Blackwell, had any knowledge of its nature and appearance.

In their remarks on the effect of spiegeleisen, and of the preparations of manganese with carbonaceous matters, as set forth in Vickers' and Heath's patents, Messrs. Hinde have gone completely astray, and have fallen into the common error of supposing that spiegeleisen is added to oxygenated iron solely to re-carbonise such iron. The fallacy of this opinion has been clearly shown where ferro-manganese in place of spiegeleisen has been used to de-oxygenate molten Bessemer metal, the results obtained being far better than when spiegeleisen is employed. Now, ferro-manganese contains only about onemer metal, the results obtained being far better than when spiegeleisen is employed. Now, ferro-manganese contains only about one-fifth as much carbon as spiegeleisen, and nearly four times as much manganese, and were it possible to produce pure metallic manganese free from carbon, at a cheap rate, it would wholly supersede spiegeleisen, and would enable manufacturers of Bessemer metal to obtain from inferior numbers of hematite pig-iron metal steel of as good a quality as they now obtain from best selected pigs. Nothing but metallic manganese requires to be imparted to oxygenated iron to produce steel, and the use of compounds containing other matters is simply due to the fact that a better or purer form of metallic manganese due to the fact that a better or purer form of metallic manganese than as contained in spiegeleisen cannot be economically procured. Neither under Heath's nor under Vickers' process is metallic manganese added to steel. Oxide of manganese is the agent here, and its action is that of a flux. Thus when blister steel, which when melted and cast into an ingot cannot be drawn into a sound bar, or bear a welding heat, be melted with a few ounces of oxide of manganese without any explosure metallic manganese without any explosure metallic heat and the cast of the content of the cast of the content of the c bear a welding heat, be melted with a few ounces of oxide of manganese without any carbonaceous matter being added, and then cast into an ingot, the ingot thus produced can be drawn into a sound bar of steel, which will forge and harden well, and bear a welding heat. In the melting pot, therefore, oxide of manganese, and not metallic manganese, acts as an improver of the steel operated upon. As to either Vickers' or Heath's process being applicable where it is desired to de-oxygenate decarbonised iron it is a myth. The Messrs, Hinde consider it difficult to believe that I appreciated the full value of my spiegeleisen patent. It is far more difficult to believe (though only too true) that those in whose hands the patent was should have neglected the duty of 50c., and neglected to inform me that they had omitted to pay it. They did not, however, neglect to misrepresent Mr. Bessemer to me, to suit their own sordid views, and thus to set me at variance with that gentleman, whom I have since found to be both honourable and kind.

Messrs, Hinde state that the Uchatius process (that is to say, my

both honourable and kind.

Messrs. Hinde state that the Uchatius process (that is to say, my process, for which Uchatius took out a very lame patent) is applicable only to iron smelted from spathose iron ores. This is a great mistake, for it is just such iron which is wholly unsuited to the process. Be that as it may, the process has been in operation in England for many years, and the steel produced, when suitable iron is employed, is not surpassed in quality by any steel otherwise manufactured. Time will show, notwithstanding the predictions of the Messrs, Hinde, that the Bessemer process will be the steel-making process of the future.—Cheltenham, Nov. 11.

R. Musher.

DIRECT RAILWAY COMMUNICATION BETWEEN ENGLAND AND FRANCE.

AND FRANCE.

SIB,—Attention has been directed to an announcement in the Mining Journal under this heading of a proposed company for making models of a wire-cable bridge between England and France on a plan invented by Mr. Boutet, who professes to cross the Straits of Dover, via Calais, by a bridge composed of ten arches, resting on nine piers, secured by wire-cables. As I originally proposed an international bridge some years ago, for the purpose of uniting the railway systems of England and France, and my project has been frequently spoken of in the leading public journals, I am apprehensive that the announcement in question may be confounded with my own project, and mislead my friends, and beg you will allow me to mark the difference of the two propositions. Mr. Boutet's, as I have already mentioned, is by way of Calais, on a new system, by a wire-work bridge

and mislead my friends, and beg you will allow me to mark the difference of the two propositions. Mr. Boutet's, as I have already mentioned, is by way of Calais, on a new system, by a wire-work bridge of ten arches, each arch having a span of nearly two English miles.

My proposal is by way of Cape Gris-Nez, the nearest French land, and at once conveniently intersecting the great continental railway system. By an improved iron tubular girder bridge, resting on massive and substantial towers of masonry, the towers placed at the greatest possible span apart consistent with safety, comfort, and durability, and the necessary convenience to shipping traversing the Straits, each tower surmounted by a brilliant light and signal-gong. Indeed, if you will imagine a succession of colossal light-houses, placed in line across the Channel from Dover Cliffs to Cape Gris-Nez, with viaducts uniting them at 300 ft. above the level of the sea, to give free passage to shipping, you will at once realise my project; to give free passage to shipping, you will at once realise my project; and I trust and believe in its thorough practicability and durability, based, as it is, on old existing works of somewhat similar nature over

based, as it is, on old existing works of somewhat similar nature over the Menai Straits and at Montreal, &c.

It is possible the public may wish to have both routes open—the wire-cable, two-mile arch, bridge by Calais for fine weather, whereby oscillating in mid-air may be thoroughly enjoyed, and the stern, solid route by Cape Gris-Nez, over the improved iron tubular girder bridge, in a gale of mind, where the rigidity of the works will not permit such lively evolutions. I am progressing with my system most favourably, and with general approval, and at the fitting time shall appeal to my friends and the public to co-operate with me in carrying the same into effect.

CHARLES BOYD. CHARLES BOYD.

Inverness Villa, Grove, Hammersmith, Nov. 6.

THE MINING REGION OF NEVADA, U.S.-No. IV

SIR,—The great Smoky Valley, traversed by Fremont in 1845, is orthy of special mention. In the centre of it are found remarkable

THE MINING REGION OF NEVADA, U.S.—No. IV.

SIR.—The great Smoky Valley, traversed by Fremont in 1845, is worthy of special mention. In the centre of it are found remarkable springs of boiling water, throwing a large and constant stream, in which meat and vegetables are readily cooked, and tea and coffee quickly prepared for use. The basin of the spring is from 20 to 20 feet in diameter, and the fountain of boiling water rises in the centre, a constant column, ascending by its subterranean force several feet above the surface. There are several smaller springs in the neighbourhood, one of which furnishes cold water. The soil about them is fertile, and the climate pleasant and healthy.

The valley continues, although slight elevations divide it into different basins, into the desert upon the southern borders of the State. In it are found vast fields of sait, and beds of sulphur, alum, and soda, and bordering upon it are the mountains of San Antonio and Silver Peak. These are isolated, and singular in their formation, and appear as if thrown into position by some violent convulsion of nature. On the eastern side of Smoky Valley, in the "Mootay" range of mountains, are located about eight mining districts, which vary in area as nearly all, if not all, the mining districts of this State do. Each of the districts are more or less celebrated for its particular mine, which, from the advanced state of exploration, continue to produce rich and valuable ores in great abundance. The Santa Clara and Philadelphia districts are the two most southern districts in this range of mountains. The Santa Clara is in a spur of the Mootay range, which skirts Smoky Valley; and immediately east, across a small neck of low land, which is a part of Ralston's Valley, is located the now famous Philadelphia district. This district is about 80 miles south-east from Austin; its mines, which are some short of silver, which are some productive in the State, are remarkable for their size and the richness of the ores, which are semi-chlorides and s

lode or vein the same varieties of rich silver ores, of identical character in almost all the districts of this section of the State, such as sulphurets, iodides, hornsilver, and almost all other kinds known to metallurgists.

As Philadelphia district is celebrated for its mines (the properties of the Belmont Company), which are large and rich true fissure lodes or veins, so in like manner are the mines of the Meridian Company of Manhatran district placed among the foremost, and are now considered among the best, if not the very best, in the State, and the district is celebrated for its Apollo, Mars, Jupiter, Venus, Asteroids, Ophir, Orlon, Mount Zion, and Manhattan. These mines, although but partially and indifferently developed, are known, from indisputable facts, asteroids, Ophir, Orlon, Mount Zion, and Manhattan. These mines, although but partially and indifferently developed, are known, from indisputable facts, able fact of a true fissure lode or vein—to be worthy of the high rank in which all who have visited the district are pleased to place them.

The great Comstock lode, at Virginia City, of which so much has been said in the California papers, is not so rich as the mines of this part of Nevada. It has produced more than any other, because it has been more extensively worked. Many claims here are worked with much greater profit than that renowned low—nay, the silver-bearing strata are so rich that no disappointment in developing them is to be apprehended, if the mines are worked with proper management and sufficient means. Already foreign and American capital is largely investing in these lodes or veins, and the silver mines of this new and wonderful State will soon receive that attention from capitalists which they so descredly merit. They are known to be rich, and easy of access at all seasons of the year, with a stable Government, an assured protection to life and property, and within read of mails and telegraph to all parts of the civilised world.

MINER.

GOLD AND SILVER AMALGAMATION.

GOLD AND SILVER AMALGAMATION.

SIR,—Under this heading I observe in last week's Journal a paragraph, emanating, I presume, from Mr. Leonard Wray, of Eagle Lodge, Ramsgate, containing such misrepresentations that, although reluctant to obtrude matters of a private and personal nature on your valuable space, I cannot permit those remarks to pass uncontradicted. The machine alluded to in my letter of Oct. 31 is not the invention of Mr. Wray, but of Capt. Paul and myself, and constructed on a totally different principle to that invented by Mr. Wray. The experiment mentioned in my letter was performed in our machine, and not in Mr. Wray's; the former giving as good results in one hour as could be obtained in four hours by the latter.

I have no desire to deprive Mr. Wray of the honour of his invention, nor have I ever claimed it.

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I have no desire to deprive Mr. Wray of the honour machine inventions shall be made public. As I have been actively engaged in metallurglead operations, especially those relating to the precious metals for the last 20 years, of which five were spent in South America, and three in Nevada and California (from whence I brought slimes and tailings for the express purpose of making these experiments), I flatter myself I can determine, without Mr. Wray's assistance, the most suitable form for a machine intended to produce the best practical results.

Assay Office, 2, Crown-chambers, Threadneedle-street.

FRANK MILLS MINE

SIR,—The paragraph in last week's Journal is liable to mislead the shareholders and your readers. By the statement of accounts now before me, it appears that they are made up to Sept. 12, and that the ore credited in October was actually raised and sampled previous to that date—the buyers of lead ores always taking two or three weeks for payment after the sampling. The balance of September cost will be included in the accounts to be presented at the next general meeting.

A SHAREHOLDER.

WEST MARIA AND FORTESCUE MINES.

WEST MARIA AND FORTESCUE MINES.

SIR,—Dividends have been promised for a long time past, but there must be more economy in the management before this can be realised. In the first place, the ore is taken to Calstock; when by taking it to Morwelham or Newquay it would save a distance in carriage of about two miles, and one horse would convey as much as two. This has long been the talk of the neighbourhood, and it is high time the distant shareholders should know it. The samplings, also, are generally put off for more than a week together, at an extra expense, simply, it appears, because the agent cannot attend to them. If his other engagements eccupy so much of his time, it must be evident the business of the mine at home must be neglected—and this should be seen to.

Tavistock, Nov. 12.

MINERAL BOTTOM MINING COMPANY.

MINERAL BOTTOM MINING COMPANY.

Str.,—In the report of the meeting of this company, in last week's Journal, it is stated by Mr. Glubb, the solicitor to the company, that in 1860 "a sett was granted to the late Mr. Cookney by Mr. Pater, of Chiverton and Mineral Bottom Mr. Cookney devised the property to his wife. The property was worked as two separate and distinct undertakings, and in 1863 a part known as Chiverton was sold to Mr. Edward Burgess, and a company was formed, by whom the operations have been carried out to the present time." These particulars are correctly stated; but you go on to say—"In the interim. Mrs. Cookney continued to work the Mineral Bottom on her own account, and in 1865 Mineral Bottom was sold to Messrs. Burgess and Hawke, and a company was formed." Now, there is evidently a mistake somewhere, as, if a company was not formed till the year 1865, how does the fact arise that I paid 600. for 100 Mineral Bottom shares to a reputed concessionaire in April, 1864. I should be glad to have this error (if it be an error) cleared up, and no donbt some of your readers can rectify statements which are at great variance, since Mineral Bottom, from recent rich discovery, is now likely to rise, Phœnix-like, from its ashes.

CORNIGH CLAY AND TWO THE AND TWO THE

CORNISH CLAY, AND TIN HILL.

CORNISH CLAY, AND TIN HILL.

Sira,—Will you permit me to call attention to the management of these properties? It is about four years since operations were commenced in each of the setts; and from the glowing reports of the managing director, and his promises marie from time to time, the concerns ought long ago to have been in a position to pay dividends. That they are both first-class properties there is no doubt, and all that seems to be wanting is efficient management and the works to be pushed on with more vigour, in order to make them remunerative. Some two or three years ago both properties were inspected by Mr. George Henwood, who spoke of them in the highest terms as possessing all the elements of success. But we all know that it is good management that makes a good mine; and that without it there can be very little hope of success being realised.

At Tin Hill, it would seem the mine is not being worked with the vigour it deserves—very little, I believe, having been done for some time. It is now more than 12 months since a meeting of the shareholders was held, when the manager in his report stated that "for the future the meetings would be held every three or four months;" but so far from this being the case, he has not for many months past even favoured us with a report of the mine. In conclusion, let me urge those shareholders who may be present at the next meeting (if, indeed, we are to have another) to insist upon a more extended and vigorous working of their property, which would soon make it profitable.

A Shareholders.

Meetings of Mining Companies.

WEST CARADON MINING COMPANY.

A general meeting of shareholders was held at the offices of the company, Bishopsgate-street, on Tuesday,
Mr. NICHOLSON in the chair.

Mr. N.CHOLSON in the chair.

Mr. W. J. LAVINGTON (the secretary) read the notice convening the meeting, and the minutes of the last were confirmed.

A statement of accounts for the four months ending Sept. showed a debit balance of 23147. 6s. 2d. The loss on the four months' ope-

ations was 1746l, 15s, 5d. The report of the agents was read:

A statement of accounts for the four months' eperations was 17461, 15s, 5d. The report of the agents was rend:

Nov. 7.—In presenting you with our four-monthly report for the general meeting to be held on the 10th instant, we beg to point out our present mode of working, and the future prospects. The 170, on Vivian's lode, is now extended; and the future prospects. The 170, on Vivian's lode, is now extended; and the future prospects. The 170, on Vivian's lode, is now extended; the latter in the 70, 80, and 92, large quantities of copper ore have been reflect on things has been done on this lode below the 92, before this end (170), as the latter in the 70, 80, and 92, large quantities of copper ore have been reflect on things has been done on this lode below the 92, before this end (170), as the in height, and all in whole to the boundary. Although the lode in the present of the end of the same to reach the cross-course, and if found as productive as in the upper levels it will open up a piece of profitable or ground, which would last for many years. In the 170, east of cross-cut, on Allen's lode, we are within 18 fms. of the boundary; within 14t, of the extreme end we unexpectedly intersected what we consider a split from the main cross-course, which will no doubt prove to be very important for us; we have suspended the driving of the end, and placed the men to drive north on the same, and, so far as we can see by the plans, the lode must be standing in this direction, where they have a good lode of ore left off in South Caradon close to the boundary. The length of the cross-cut from Allen's lode, taking the heave into account, seems to be 18 fathoms, out of which nearly 7 fms. have been already driven, and the ground still continues moderately easy for progress. Dunstan's lode, in the 104, as act of cross-course, is extended 37 fms. The winze shiking below the 92 has been sunk 7½ fms. below the 14t (Gonamena), which is about equal depth with the 104, named above. At the bottom of this winze we have driven west

a considerable length and height, and as well the 170 cross-cut, north of Allen's lode, where we are fast approaching the lode towards where they have a good course of ore in South Caradon; this we are watching with intense interest, and if found so productive as they have it, would quickly place this mine in a good position; and also when the 104, on Dunstan's lode, is holed to the winze sunk below the 114, we shall then have a good advantage in taking away the ore ground where holed to Gonamena. At Marina's shaft we are cross-cutting at the 30 in this plece of whole ground, where we have several lodes for upwards of 200 fathoms in length, which can be proved effectually by this shaft; and if found productive it will open up an entire new mine. In conclusion, we do not hesitate to say that there are but few mining speculations that hold out greater inducements than this for ultimate success. We have employed on the mine 137 hands.—WILLIAM JOHNS, NICHOLAS RICHARDS.

The CHAIRMAN moved that the report be received and entered on the minutes, and that the accounts be passed and allowed. He re-

The CHAIRMAN moved that the report be received and entered on the minutes, and that the accounts be passed and allowed. He regretted that the committee again came before the shareholders with such a heavy debit balance; and if the deep levels were to be prosecuted he did not see that there could be any serious mitigation in the costs. A large sum of money had been expended in sinking Elliott's shaft to the 180 fm. level, from which nothing had as yet been realised. He must confess his own opinion was decidedly in favour of working the shallow in preference to the deeper levels. It was true that some important result might be realised from the deeper workings, but at present the lodes could not be valued at those points. It was, of course, for the meeting to consider and determine what course should be adopted. After some further discussion, the report was ordered to be entered on the minutes, and the accounts were passed and a lowed.

A call of 2l, per share was made. The committee of management were re-elected. A vote of thanks to the Chairman terminated the proceedings.

NORTH WHEAL CHIVERTON MINING COMPANY.

A general meeting of shareholders was held at the offices, Gresham ouse, on Thursday,—Mr. GEORGE NOAKES, F.G.S., in the chair. Mr. PARRY read the notice convening the meeting, and the minutes

of the last were approved.

A statement of accounts was submitted, which showed a credit balance of 50*l.*, including the cost for the month of October.

A statement of accounts was submitted, which showed a credit balance of 50%, including the cost for the month of October.

The report of the committee was read, as follows:—
The remittee are desirous to lay before the shareholders the operations that have been carried out during the 18 months the company has been established, in order that they may fairly judge of the present position of the mine and the prospects for future working. Nearly 250 fms. of ground have been excavated in sinking and driving, and the mine laid open to the depth at which it was expected profitable ground would be found. The committee regret to state that this expectation has not been realised. The engine-shaft has been sunk from the 60 to the 105, at which point the lode was intersected at the shaft; and, although improved in character—strong toothy quarts, with occasional large cubes of lead—there is yet no concentration of mineral to value. In the 90 fm. level, driving east, an improvement has taken place in the end approaching the point under which a fine bunch of lead was found going down in the bottom of the 80. This is the most promising end in the mine; and, should the lead in the 80 hold down to the 90 and to the 100, a profitable piece of ground may yet be opened out; it is, therefore, desirable to continue this end. The committee desire also, on account of the lmproved character of the lode in the shaft, to shak 12 fms. below the 100, for the purpose of proving the lode at that depth. Throughout all these workings the lode has been uniformly large and congenial, but of no mineral value. A great sameness has prevailed. No cross-courses or other disturbing influences have been met with, such as generally give a mineral character to the lode. The committee have, therefore, directed their attention to Hicks's shaft, 200 fms. west of the present working, where an eivan course and a cross lode of a strong productive character can be seen running north and south in the adit level, 17 fms. from surface; this lode has been inspected b

the 40, as well as to continue such operations as may be deemed advisable in the eastern mine; and the committee have strong hope that by a vigorous development of the western ground the capital expended may be returned with profit.

The report of the agents was read, as follows:—

Nov. 11.—We beg to present you with the following report of this mine for your general meeting, to be held to-morrow, showing the amount of work that has been accomplished in the past quarter, together with its future prospects. Since your last meeting the pitwork has been drawn up from the old sump-shaft, flat-rods suspended, and the pitwork arranged in the engine-shaft from the 43 to the 100 fm. lovel, which has now put us in good working order in this department. The shaft is sunk 5 fms. 3 fc., and is now 7 fms. 1 ft. below the 100; the lode has been in the shaft for the last 4 fms., the leading part being about 7 ft. wide, composed of quartz, spar, nundic, with occasional good stones and strong spots of lead, with a beautiful country about it. The 100 fm. level has been extended east on the south part of the lode bout 14 fms., at times producing good stones of lead: from the appearance of the lode in this end, and the character of the lode gone down in the level above (the 90), we are of opinion this end will improve as we advance. We may here remark that about midway of this drivage we cut through the lode, and found it to be about 15 ft. wide, chiefly quartz, spar, mundic, with occasional stones of lead, and carrying a good wallon the south side. The 90 fm. level has been extended east 11 fms. 2 ft., and is now about 25 fms. from the shaft; the last 13 fms. driven through has produced from 1 to 2 tons of blende per fm., and at times excellent stones of lead, especially towards the bottom of the level; the lode in the end is large, 5 ft. of it saving work for blende and lead. We are putting up a rise in the back of this level, near the advantage which will unwater the 5 ft. on the substend on with all speed, for reasons before s

The CHAIRMAN said the tenour of those reports was not altogether so satisfactory as it had been hoped would have been the case at the present time, but he need hardly say that all who associated themselves with adventures of this kind must be prepared for the vicissitudes inseparable from mining. It was not, however, because they had been hitherto unsuccessful that success was out of the question, for the lode was exceedingly large, although as yet not concentrated enough for the production of mineral. His old friend, Mr. John Petherick, who inspected the mine for a former company, then stated that unless some change took place in the ground below the 80 he should not have much hope of the mine, but when some such change did take place he had a better opinion; and when some stuff brought up from the 100 was shown to him, he said "There must be a deposit somewhere." Mr. Clemes, whom he (the Chairman) looked upon as one of the best mining authorities of the present day, also said, after having inspected the mine, that "There must be a deposit somewhere." It was the same words coming from these three mining authorities dotten that mines had been often worked for years, until the sharcholders were dispirited, when all at once that which they had hoped to find at an earlier date was at length discovered. He felt that as far as the sharcholders in this company were concerned, it would be cowardly now that the subscribed capital had been pretty well expended to leave the mine without further trial; and more than that, they would be all dreadfully annoyed if others were to step in and reap the benefit of the capital expended. He felt the could thus address his co-shareholders, because he himself held 250 shares, which was no mean interest in a concern of that kind, and he might add that he was quite willing to expend years and a state when he was the men. He was happy to say that each member The CHAIRMAN said the tenour of those reports was not altogethe reap the benefit of the capital expended. He felt be could thus address his co-shareholders, because he himself held 250 shares, which was no mean interest in a concern of that kind, and he might add that he was quite willing to expend 20s, per share more to prove the mine. He was happy to say that each member of the committee, and some of the largest shareholders with whom he had communicated, agreed with him. (Hear, hear.) When the present company purchased the mine the western portion was held out as merely presenting a fair promise, so that operations were continued only at the point where the engine had been placed, and where they hoped to achieve success. Hearing so many opinions with respect to the western part of the mine, he took the opportunity, when in Cornwall, to have Hicks's shaft cleared out and thoroughly drained. An elvan course and a cross lode were found, and certainly nothing could be more encouraging than the appearance of the latter, being of a quartzose character, and containing fine cubes of lead. Mr. Clemes told him that were hean adventurer he should most undoubtedly be prepared to pay 20s. or 21, per share to develope Hicks's shaft alone. Taking all these circumstances into consideration, he did not think they could do any other than to push forward this point, which presented so many encouraging features. In the meantime, some returns might be obtained from the castero'portion. He had been informed that the previous company had great difficulty in securing the western ground; there appeared to be a high opinion of it, and it was considered a property that should be worked separately.

vious company and strong party that should be worked separately.

Mr. W. H. Lanyon (of Truro) said he had received a report from Mr. Henty, one of the Great Vor agents, to the effect that he was much pleased with the general appearance of the lode at Hicks's shaft, and that from the favourable character of the stuff there was a fair chance of making a good discovery at that point.—Mr. Edward Cooks said that, perhaps, next to their worthy Chairman, he was the most largely interested in the success of the mine, although he did not hold so large a pecuniary interest in the concern as many others did. Although no one regretted more than himself that success had not been realised by the capital subscribed, he could not disguise from his mind the fact that the prospects still held out in the eastern part of the mine were of that character that it would be cowardly to suspend operations. As to Hicks's shaft, however, although he did not pretend to have any practical knowledge of mining, the

meeting would bear testimony to the fact that from the commenement of the concern he had always expressed the highest opinion of that part of the mine. What had just trauspired in the adjoining mine (Wheal Chierton) should certainly be an encouragement for them to continue, and the more particularly as it was stated at the Mineral Bottom Mine meeting that the lode which had been recently discovered at the Chiverton Mine would most likely be found in North Chiverton, and there were other lodes which had not yet been developed, Mr. West, to whose opinion he (Mr. Cooke) was bound to pay respect, who represented the Ecclesiatical Commissioners, when application was made to him for the western part of the mine, stated that it ought to be worked as a separate company, for he believed that would be the best part of the mine. It was his hope and his belief that when the western part of the mine was developed the shareholders would be well repaid for their outlay.

The report was received, and ordered to be entered on the minutes, and the accounts were passed and allowed.

The CHAIRMAN said it was proposed to make a call of 10°, per share. Mr. E. COOKE said that when the shareholders knew that their worthy Chairman, who had had great experience in mines, and had brought one of the largest holders in North Chiverton, to pay 20°s, per share more for the further development of the mine, they certainly had a great deal to encourage them to vigorously continue their operations. He would, however, suggest that the proposed call should be divided into two instalments.

It was eventually agreed that a call of 10°s, per share should be made, payable in two instalments, S. on Nov. 28, and 58, on Jan. 28.

Mr. Cooke apologised for the absence of Mr. Peter Watson, on account of indisposition.

Mr. W. H. Lanyon proposed a vote of thanks to the Chairman, and, as a Cor-

Mr. Cooke apologised for the absence of Mr. Peter watson, on account of indisposition.

Mr. W. H. Lanyon proposed a vote of thanks to the Chairman, and, as a Cornishman, took the opportunity of testifying to the deservedly high opinion which was entertained of Mr. Noakes throughout Cornwall. Such was the reputation of their Chairman throughout Cornwall that anyone associating themselves with any mine under his management would be perfectly satisfied, it even a "blink of ore" was never found. Such was the opinion of his management that they felt assured they would have 20s. worth of work for every 20s. which they expended. (Hear, hear.)

Mr. Cooke seconded the propositon, which was put and carried unanimously. The Chairman having acknowled the vote, the proceedings terminated.

PEDN-AN-DREA UNITED MINING COMPANY.

The usual general meeting of shareholders was held at the offices

The usual general meeting of shareholders was held at the offices of the company, 15, New Broad-street, on Nov. 6,

Mr. CHARLES MARIXI in the chair.

The SECRETARY (Mr. G. H. Cardozo) having read the notice convening the meeting and the minutes of the preceding meeting, which were signed by the Chairman, proceeded to read the report of the agents on the condition and prospect of the mine.

Capts, W. Tregay and J. Thomas in their report entered very fully into the operations of the mine up to the present time, and as to the north mine, stated that "the lode opened since the last meeting by the 55 cross-cut is large, strong, and productive. In the 55, west of cross-course, it is 10 feet wide, worth 25t, per fathom. We have opened a shaft from surface, which struck the lode at the 20, and is there continued on its course to the 55. In the 47, 40, 30, and 20, we have opened levels. Although the lode is not as productive generally in these levels as at the 55, it is productive so far as seen, which in the 20 is upwards of 100 fathoms in length. We have tribute pitches at work at each of those levels, at 12s, and 12s, 6d, in 1t, from which we have sampled, since we commenced hauling there on Aug. 12, upwards of 16 tons of black tin, and this produce is increasing. This lode, we are now satisfied, we have not driven far enough to intersect in our 90 north cross-cut by some 5 or 6 fathoms, and we purpose continuing it."

The CHAIRMAN said the report that had now been read was undoubtedly the best and most promising they had received for some

The CHAIRMAN said the report that had now been read was undoubtedly the best and most promising they had received for some time past. What was said about the north lode was particularly encouraging, and gave them good reason to hope that it would not be long before they found the mines in a prosperous and profitable condition. They might call it a new point of operation, and it was not only full of promise but it was one that could be worked at a comparatively small cost. He was glad, too, to be able to say that even at present the expectations the manager had induced them to form had been more than realised. (Hear, hear.)

The SECRETARY said there seemed to be little doubt that this north lode was going to give them a permanent return of tin. It had now returned upwards of 16 tons of black tin, and they could work that part of the mine at a profit.

Mr. THOMSON asked how far this lode was from the old one?

The SECRETARY relied that it was only about 18 fms. distant.

Mr. CARPENTER thought that the report was an eminently satisfactory one, and had no doubt that it would be so deemed by the shareholders at large. (Hear.)

The SECRETARY said it might be well to bring before the meeting a report or letter that had been received from Capt. Tregay early in August last, as it would show them how greatly they had improved since that time. In that letter he gave them reason to hope that at no distant period they would find the north lode productive. As he (the Secretary) had already stated, the lode had already returned about 500i, worth of tin, and the levels were only now being developed as deep as the 55; and as the 90 fm. level cross-cut, in the old mine, was now within about 5 fms. of this new lode, great expectations might fairly be entertained of it.

Mr. Horace Green wished to know whether it would not be as well to cease

as deep as the 55; and as the 90 fm. level cross-cut, in the old mine, was now within about 5 fms. of this new lode, great expectations might fairly be entertained of it.

Mr. HORACE GREEN wished to know whether it would not be as well to cease working in the old mine for the present, and confine themselves to the new one—he meant the north lode, inasmuch as it appeared that they could work that at a profit even at prosent, while there was almost a certainty of greatly increasing their present returns?—The CHAIRMAN replied that they had some fine prospects in the old mine, which he, for one, should not like to abandon even for a time; besides which, he believed they were obliged to keep at work there, in order to prevent the water draining into the north mine.

The SECRETARY, in reply to a question, said it would be quite possible to dam the water out of the old mine if it should become necessary to do so.

The SECRETARY then read the financial statement, and after some conversantion, Mr. CARPENTER moved and Mr. GREEN seconded that the report and financial statement be adopted, and printed for circulation amongst the shareholders, which was agreed to.——It was then resolved that a call be now made of 16s, per share, payable in three instalments.

Mr. THOMSON asked whether it was not the fact that all the neighbouring tin mines were, without exception, in a profitable condition at a greater depth than the bottom levels in this mine?——The SECRETARY replied in the affirmative. A SHAREHOLDER said he was glad to find that the operations in the old mine would be continued, as he was quite satisfied, from his practical knowledge, that the extension of the workings further westward would lead to a profitable result. He was glad, too, that the call made was adequate to place the mine in a sound position.——The committee was then re-elected, and a vote of thanks to the Chairman terminated the proceedings.

GENERAL BRAZILIAN MINING COMPANY.

The first general meeting of shareholders was held at the London Tavern, Bishopsgate, on Tuesday,—Mr. HENRY HAYMEN in the chair. Mr. JOHN E. DAWSON (the secretary) read the notice convening

the meeting.

The CHAIRMAN said the shareholders were aware that this meeting had been called in conformity with the provisions of the Companies Act, which required every company within four months after its formation to call a general meeting of its shareholders. He could not, however, conceive the object of the Legislature in making it compulsory, because in many cases it came to this—that the directors came before the shareholders with very little more to say than when the prospectus was originally issued. However, as such was the law, and the shareholders had been called together in conformity therewith, he would avail himself of the opportunity to make a few remarks with respect to the affairs of the company. In the first place, he might mention that Capt. Treloar and his staff left yesterday for Brazil, for the purpose of undertaking the management of the properties referred to in the pamphlet originally circulated, and upon which those who were now shareholders had subscribed the capital for the undertaking. The shareholders were aware from what appeared in that pamphlet that there were three large proporties proporties proporties, because he believed that would not be for the interest of the shareholders to-day not to desire be into go into details as to the names of those properties, because he believed that would not be for the interest of the shareholders, but, on the contrary, that it might act adversely to it. He would, therefore, confine his remarks simply to a short statement with reference to the successful results attending the development of the jaccings formation. When some years since he addressed the shareholders in the original company—the Don Pedro North del Rey—over which he had the honour of presiding, he remembered informing them that a jacctings formation had been secured, in addition to the rock formation in the Morro Santa Anna property. What the results had been they all knew. Suffice it to eay, therefore, to those who were not shareholders in Don Pedro, that the directors had been The CHAIRMAN said the shareholders were aware that this meetreturn in dividends 13s, per share on each share with 14s, paid, and that up to the present time for this year there had been paid 4s, 6d, per share, and at the forthcoming meeting, to be held at the end of the present month, he should propose a further dividend of 3s, 6d, per share; and it was his opinion, which he would then state, that before the close of the current year the directors would be in a position, from the financial results of the working of the mine, to declare a dividend of not less than 100 per cent. per annum. (Hear, hear.) With regard to the General Brazilian Mining Company, Capt. Treloar brought the three properties under his notice, and the result was the formation of the undertaking. There were three large properties—not three mines, which was a totally different thing—which had been worked from time immemorial, and had always been known to yield very large and splendid results from the jacotings formation. Even comparatively recently the shareholders in the Don Pedro Company were endeavoured to be frightened at the dreadful uncertain nature of the jacotings formation. But what had they found—that although the produce had varied from time to time, yet that the smallest amount of profit accruing was 50 per cent. and the largest considerably over 100 per cent., be thought that favourably compared with the results realised from the development of the rock formation which was usually worked in Brazil. His opinion was that at a very early date after the General Brazilian Company had obtained possession of their properties, allowing a short time for Capt. Treloar to develope them, the enterprise would rise to a very high position. He believed such reports would be circulated from time to time, showing the results ed the workings, and especially the realised profits, which would place the undertaking at the very head of the list of mines. He hoped and trusted that when he met the shareholders again, at the end of the year, he would be able to inform them that results had been realised corroborat

were to get abroad. Capt. Treloar only left yesterday for the Brazils, and if he (the Chairman) were now to answer the questions that had been put the result might be to the disadvantage of the shareholders. (Hear, hear.) And he had now no doubt that the whole of the properties would be conveyed to the company upon most satisfactory terms. If any bona fide shareholder would kindly call at the office he would get every information he required; but he (the Chairman) was most anxious that nothing should be used detrimental to the company's interest.

man) was most anxious that nothing should be used detrimental to the company's interest.

Upon the proposition of Mr. Bingley, seconded by General Hurdle, a vote of thanks was passed to the Chairman.

The Chairman having acknowledged the vote, stated that he hoped the money the sharcholders had invested would return, as he fully believed it would, a very handsome result, even beyond what they could anticipate. (Hear, hear.)

The meeting then separated.

CAPULA SILVER MINING COMPANY.

CAPULA SILVER MINING COMPANY.

A general meeting of shareholders was held at the City Terminus Hotel, Cannon-strest, on Thursday,—Mr. J. PHILLIPS in the chair.

Mr. George F. Smith (the secretary) read the notice convening the meeting. The report of the directors was taken as read.

The CHAIRMAN said, since the report was issued a letter had been received from the manager in Mexico which gave some additional information with respect to the position and prospects of the mine. It appeared that although there were difficulties, there were also matters upon which they might congratulate themselves. For instance, they might congratulate themselves upon the appearances the mine continued to present; there seemed to be still further evidence that it was one likely to become very productive, and, he hoped by-and-bye, very profitable. He would not, however, detain the meeting with any remarks of his own, but would rather invite questions from the shareholders. He would, therefore, content himself by moving that the report and accounts be received and adopted.

Mr. HILL seconded the proposition, and took the opportunity of enquiring of the directors whether Capt. Pauli was not liberal of his promises, while he foreout the performance? He should also like to know if the money and ore on hand would be satisfied.

The CHAIRMAN confessed that he in some measure participated in the disappointment which it appeared was felt by some of the shareholders—for instance such progress had not been made with the reduction works as he had hoped would have been made; some allowance, however, must be made for the difficulties in obtaining machinery and skilled labour. There was reason to hope that they would see greater progress than hitherto, the more particularly as the directors had sent out funds to assist Cuptain Pauli had had 30 years' experi
Mr. CHYNOWETH (a director) said that Capt. Pauli had had 30 years' experi-

they would see greater progress than hitherto, the more particularly as the directors had sent out funds to assist Cuptain Paull in the more rapid completion of the works.

Mr. Chynoweth (a director) said that Capt. Paull had had 30 years' experience of the country, and throughout that period had been connected with mines, especially underground workings. Capt. Paull had also conducted the reduction of ores; therefore, he combined every qualification necessary for his position. As to the mine, from the general nature of the ground, and the aspect of the lode, he certainly was persuaded that the company was in a promising condition. It was true that as long back as 1866 Capt. Paull and himself selected the position for the hacienda, but immediately afterwards Capt. Paull was beset with difficulties, which culminated in the revolution of the empire and the fall of Maximilian, so that Captain Paull's operations, as far as the hacienda was concerned, were completely paralised. Since then, however, he (Mr. Chynoweth) must express his surprise that the works had not been carried on, and he could only attribute it to the fact that a difficulty existed in obtaining skilled workmen.—Mr. TweEDY entered into the disappointment expressed by other shareholders, but thought the explanation was in the fact that the disturbed skilled labour.

Mr. ReED asked what was the present yielding capability of the mine?—Mr. Chynoweth believed that at the present time the mine was not capable of yielding more than 100 cargas of ore per week; but taking the character of the ground into account he expected, when the shafts were down and the levels extended, to see the returns increase up possibly to 1000 or 1500 cargas por week.

The Chairman, in reply to a question, stated that the directors were still in hopes not only that they would not require to make the remaining call of 2s. 6d. per share, but they might be able to go on with their present funds.

The report was received and adopted.

A vote of thanks to the Chairman terminated the

[ADVERTISEMENTS.]

A vote of thanks to the Chairman terminated the proceedings.

[ADVERTISEMENTS.]

From Mr. Edward Cooke:—The market has been only moderately active during the week. This is only a natural consequence after the continuous rise that has taken place in the price of the shares in several mines. Attention should now be turned to other mines that possess excellent prospects, and standing at very low prices in the market. I cannot do better than refer to those named in my article in last week's Journal. The accounts I receive from New Wheal Lovelle are of a very encouraging kind, and on referring to the agent's report, in another column, it will be seen that a fine mine is being opened up there, and yet the mine is selling at less than 5000. For its entirety. Frank Mills Mine continues to open up well, and leaving good profits to the shareholders. A paragraph appeared in last week's Journal, relative to the financial position of this company. I may say, without fear of contradiction, I believe that there is no mining company in Devon or Cornwall, or, in fact, anywhere, in which the statement of accounts are laid more fairly before the shareholder, or charged up so close. The costs are charged up to Sept. 12, and which are not really payable until Saturday (this day). The lead credited was sold on Oct. 10; and all who are conversant with these matters are aware that this parcel of lead was part of the produce of September month, as the lead is generally sampled a fortnight before it is sold; and although the September costs are only payable this day, there are about 70 tons of lead broken and dressed towards the next sale; this, with the balance of 1076. carried forward at the last meeting, and the mine still producing large quantities of lead, will, I think, satisfy the shareholders who have held on their shares so long at high prices are by no means unlikely to see all their outlay return with good interest. The discovery in Chiverton encourages the North Wilead Chiverton Company of the property with vigour. A new sha

low in price, and should be bought at once, and held for a few months, and I feel confident the result will be highly satisfactory to the investor.

From Messrs, WARD and JACKMAN:—In looking out for a productive channel for the investment of available means, the public will do well at the present moment to investigate the advantages of mining shares, which now, perhaps more than ever, possess attractions far superior to many other investments. We predicted several weeks since the extensive revival of business in the Mining Share Market, which has taken place: and it is gratifying to notice the marked improvement in the character of current transactions. There is a visible diminution of reckless speculation in connection with the bimonthly account (except in one or two of the favourite mines), which has to a large extent given place to bona fide sales and purchases, consequent upon an accession of orders from various parts of the country, and towards the end of the year it is exceedingly likely that the demand for various classes of stocks and shares will further revive, and this is a cogent reason why those who contemplate the purchase of really eligible investments should at once make their selection while quotations remain comparatively low. Stray Park, adjoining Dolocath, has been worked, we believe, from time immemorial, and has yielded very large profits. We remember the shares at 601. each, and are informed the mine is greatly improved. The shares have been in great request, and will very likely rise considerably. At North Roskear they have a very fine looking lode in Pearce's shaft, sinking under the 205 fm. level; it is 6 ft. wide, and worth for the length of the shaft (11 ft.) 701. per fathom at the present standard of copper ore. At EAST SETON they have a very gool lode in the rose of the mining that a very described to the shaft (11 ft.) 702. per fathom at the present standard of copper ore. At EAST SETON they have a very gool lode in the 10, east of eastern shaft, producing at present about ½ ton of VERTON (the meteor of the mining market at present) has again fluctuated in value; the present price of the shares is in some measure attributed to the rumour current that the shareholders are likely to be made plaintiffs in an action at law against the adjoining property—the Mineral Bottom, who, it appears, have given great offence to some of the shareholders in the former mine, by recommending operations which had been suspended, and but for the late improvement in Chiverton, they admit, would not have been done. Parties who remember the West Basset and South Frances litigations, are naturally anxious to sell out at any price. At Cann Braz the different points of operation are valued at over 5001, per fathom. This property is selling for under 20,0001.

COUGHS, COLDS, AND INFLUENZA CURED BY DR. LOCOCK'S WAFERS. COUGHS, COLDS, AND INFLUENZA CURED BY DR. LOCOCK'S WAFERS,—Mr. Horsfield, Chemist, Sweet-street, Leeds, writes: "I have received a letter from a minister of this town, in which he speaks very highly of the benefit he has derived from the use of Dr. Locock's wafers. To my own knowledge they are the best remedy for coughs, colds, and influenza.—Dr. Locock's wafers give instant relief to and rapidly cure asthma, consumption, coughs, and all disorders of the breath and langs. Throat affections are immediately relieved by allowing a wafer accasionally to dissolve in the mouth. To singers and public speakers they are invaluable for clearing and strengthening the voice. They have a pleasant taste. Price 1s. 1½d., 2s. 9d., 4s. 6d., and 1ls. per box.

HOLLOWAY'S PILLS—COMFORT FOR THE AFFLICTED.—When the blood becomes impure through breathing foul air, or through the imperfect performance of any bodily function, the greatest benefit will be derived from these pills, whose purifying, alterative, and tonic virtues are too well known to need any commendation here. After taking a few doses a marked amendment will be felt from day to day; the appetite will grow better, the stomach stronger, the liver wholesomely active, and the bowels naturally regular. While taking these pills there is no danger of catching cold, nor are any save the simplest precautions (plainly set forth in the "directions for use") necessary for socuring the full beneficial results derivable from this well known, world-esteemed medicine. HOLLOWAY'S PILLS-COMFORT FOR THE AFFLICTED .- When the

WATSON BROTHERS' MINING CIRCULAR

WATSON BROTHERS,

M NING AGENTS, STOCK AND SHARE DEALERS, &c.
1, ST. MICHAEL'S ALLEY, CORNHILL, LONDON.

M ESSRS, WATSON BROTHERS return their most sincere

ESSRS, WATSON BROTHERS return their most sincere thanks for the great patronage bestowed and confidence reposed in their firm for 25 years, and to assure their friends and clients it will be their carnest endeavour to merit a continuance of both.

Messrs, WATSON BROTHERS have made arrangements for continuing their weekly Circular, which has had a large circulation for many years, to the columns of the Mining Journal, their special reports and remarks upon mines and mining, and state of the share market, will in future appear in this column. In the year 1843, when Cornish mining was almost unknown to the general public, attention was first called to its advantages, when properly conducted, in the "Compendium of British Mining," commenced in 1847, and published in 1843, by Mr. J. Y. WATSON, F. G. S., author of "Gleanings among Mines and Miners," "Records of Ancient Mining," "Cornish Notes" (second series, 1863), "The Progress of Mining," with statistics of the Mining Interest, annually for 21 years, &c., &c. In the Compendium, published in 1843, Mr. WATSON was the first to recommend the system of a "division of small risks in several mines, ensuring success in the aggregate," and Messrs. WATSON BROTHERS have always a selected list on hand. Perhaps at no former period in the annals of mining has there been more peculiar need of honest and experienced advise in regard to mines and share dealing than there is a tpresent; and, from the lengthened experience of Messrs. WATSON BROTHERS thay a base of their knowledge and in the same share dealing than there is a tpresent; and, from the lengthened experience of Messrs. WATSON BROTHERS thay a business in the public funds, railway, docks, insurance, and every other description of shares dealt in on the experience of more han 30 years of their knowledge and judgment, based on the experience of more than 30 years active connection with the Mining Market.

Messrs. WATSON BROTHERS are also daily asked their opinion of particular mines, as well as to recommend mines to the best

ways equal the expectations they may have ned out in a property so nuctuating as mining.

Messrs. WATSON BROTHERS having agents and correspondents in all the mining districts, and an extensive connection among the largest holders of mining property, have the more confidence in tendering their advice on all matters relating to the state and prospects of mines and mining companies, and are able to supply shares in all the best mines at close market prices, free of all charge

to supply shares in all the best mines at close market prices, free of all charge for commission.

SATURDAY, Nov. 7.—Market rather quiet. East Caradon, 5 to 5¼; Great Laxey, 20 to 21; West Chiverton, 61 to 62; in demand; Prince of Wales, 40s. to 42s.; Wheal Chiverton, 3¾ to 4; Don Pedro, 3¾ to 19; Audanamutans, 2½ to 2½; Great Vor, 13 to 14; Marke Valley, 8¾ to 9. West Chiverton, 61 to 62; West Seton, 195 to 205; Mineral Bottom, 3 to 3½; Prince of Wales, 38s. to 40s.; Tincroft, 16 to 17; Don Pedro, 3¾ to 4; Chiverton Moor, 6 to 6½; Chontales, 2¾ to 2¾; West Frances, 33 to 35.

TUESDAY.—Market again very quiet. Great Laxey, West Chiverton, and Stray Park chiefly dealt in. Great Laxey, 20½ to 21½; West Chiverton, 61 to 62; Stray Park, 4 to 5; Prince of Wales, 88s. to 40s.; Chiverton, Chiverton, 61 to 62; Stray Park, 4 to 5; Crebor, 8s. to 10s.; Great Vor, 13 to 14; East Grenville, 4 to 4½; Chontales, 2½ to 29½; Don Pedro, 3¾ to 4.

WEDNESDAY.—Active demand to-day for West Chiverton, Chiverton, Stray Park, Marke Valley, Great Laxey, East Caradon, and South Condurrow. West Seton and Prince of Wales flatter. West Chiverton, 61 to 62; Stray Park, 4 to 5; Chiver on 4 to 4½; Marke Valley, 8½ to 9; Great Laxey, 19½ to 29½; East Caradon, 5 to 5½; South Condurrow, iss. to 17s. 6d.; West Seton, 185 to 195; Prince of Wales, 38s. to 40s.; Grenville, 30s. to 35s.; East Grenville, 4 to 4½; Marke Valley, 8½ to 9; Great Laxey, 19½ to 29½; East Caradon, 5 to 5½; Stray Park, 5 to 6. chiefly in demand; East Grenville, 3% to 4½; to 17s. 6d.; West Seton, 185 to 195; inter; Don Pedro, 3¾ to 4; Vidanamutana, 2½ to 2½; West Seton, 185 to 195; inter; Don Pedro, 3¾ to 4½; Great Vor, 12½ to 13½; West Seton, 195 to 195; Great Laxey, 20½ to 21½; Stray Park, 5 to 6. chiefly in demand; East Grenville, 3% to 4½; to 4½; Stray Park, 5 to 6. chiefly in demand; East Grenville, 3% to 4½; Stray Park, 5 to 6. chiefly in demand; East Grenville, 3% to 4½; Stray Park, 5 to 6. chiefly in demand; East Grenville, 3% to 4½; to 21½; Stray Park, 5 to 6. chiefl

Mining Correspondence.

BRITISH MINES.

ABRAHAM CONSOLS.—J. Vivian, Nov. 12: In the 27, driving east of shaft, the lode is 8 in. wide, worth 4l. per fathom for tin, and indicates further improvement. The 27, west of shaft, is suspended for the present, and these men put to rise for ventilation of air. The lode in the rise is 18 in. wide, worth 6l.

provement. The 27, west of shafe, is suspended for the present, and these men put to rise for ventilation of air. The lode in the rise is 18 in. wide, worth 6%, per fathom for tin.

BEDFORD UNITED,—James Phillips, Nov. 11: The lode in the shaft is still worth from 8 to 9 tons of ore per fathom, for the length of the shaft. The lode in the 90 east is 4 feet wide, worth from 5 to 6 tons of ore per fathom. In the 75 east the lode is worth 5 tons of ore per fathom. The stopes average about 4 tons of ore per fathom. The pitches are yielding about their usual quantity of ore. BRONFLOYD UNITED.—Thomas Kemp, Nov. 11: Settings for November Since last report we have had to suspend for 10 days drawing at the new shaft, for the purpose of fixing the new drawing-machine, with the new incline, is now working well. The 73 fin. level cross-cut, to the south of new shaft, is set to six men, at 160s, per fathom, to drive through the lode. This bargain has been idle since last report, owing to the above-named cause, and the level being full of stuff. We have resumed drawing to-day, and the men will now go on with their bargain uninterruptedly. Four men to open on and stope the lode west of cross-cut, in the 62, at 70s, per fathom; the lode here is looking well, and is worth fully 2 tons of ore per cubic fathom. The winze sinking below this level is without change, and for the length of it (9 ft. by 6 ft.) is worth 3 tons of ore per fathom in depth. Eight men to stope under the 52, at 70s, per fathom; the lode here is now worth about 2 tons of ore per cubic fathom. The winze sinking below this level is without change, and for the length of it (9 ft. by 6 ft.) is worth 5 tons of ore per fathom in depth. Eight men to stope under the 52, at 70s, per fathom; the lode here is now worth about 2 tons of ore per cubic fathom. The stope to the west of winze, in the back of the 52, is continued by six men, day work to deep roducing fully 1 ton of ore per endic fathom. Four men to drive the 4 end west, at 75s, per fathom; lode without change

In the green stone, and the 100 is strongly mineralised with mundic and spots of copper ore.

CARADON CONSOLS.—S. Bennetts, Nov. 10: The gossan lode in the 78 west presents a very line appearance, a full end wide, and although there is not in the gossan much ore, yet I think near this there is something good. The Clymo's lode, in the 78 west, is producing about 1 ton of ore per fathom.

CARN CAMBORNE.—John Truscott, Nov. 11: The ground in sinking the engine-shaft below the 70 continues favourable, and good progress is being made. In the 70 west, for the part carried, which is 6 feet wide, it is worth 181, per fm., the lode presenting very encouraging appearances. In the 60 west the lode is small, but will, probably, improve as we get further off the cross-course. The stope and pitches continue just of the same value as when last reported.

CASHWELL.—John Peart, Nov. 7: The veln in drift below Scar Limestone has been and continues hard, but still shows a good veln and part ore. No. 1 stope next to the above drift forehead has been very rich for the last four weeks, and has every appearance of continuing to produce well. We are making a rise into the Slaty Hazle from drift below this stratum, but have not yet got up to the bearing part. There are two men raising ore in the Slaty Hazle, a little west of this rise, which is paying well. At Dauke's Mine a rise is being made into the Slaty Hazle but have not yet got high enough to prove whether the veln will into the Slaty Hazle from drift below this stratum, but have not yet got up to the bearing part. There are two men raising ore in the Slaty Hazle, a little west of this rise, which is paying well. At Dauke's Mine a rise is being made into the Slaty Hazle but have not yet got high enough to prove whether the vein will be productive or not. We sold on Oct. 30, to Messrs. Jacob Walton and Co., Bollhope Smelt Mills, 63 tons 12 cwts, of lead ore, at 121, 17s. 6d, per ton. CASTELL CARN DOCHAN (Gold).—J. Parry, Nov. 10: The character of the ground in the forebreast of the deep cross-cut is much the same as last reported, but we have cut into two narrow strings of quartz, which are probably feeders belonging to the lode.
CHANTICLEER.—William Wasley, Nov. 12: The lode in the sump in bottom of the 110 vard level is producing some very nice lumps of ore, and looking very

CHANTICLEER.—William Wasley, Nov. 12: The lode in the sump in obtain of the 110 yard level is producing some very nice lumps of ore, and looking very likely for an improvement; but, as we are now troubled with water in clearing the old sump in the bottom of the 90 yard level, I have put the men there for a few days, to see if we can get to the bottom of it, and make a communication with the rise in the roof of the 110 yard level, which will thoroughly ventilate.

se mine.

CHIVERTON.—J. Juleff, J. Borlase, Nov. 12: In the 20, south of No. 1 cross

tt, the lode is 2 feet wide, worth 6 cwts, of lead per fathom. In the 20, north

f No. 2 cross-cut, the lode is 18 inches wide, worth 12 cwts, of lead per fathom

he n. w shaft is down 6 tathoms, and the rise is up 2 fathoms 4 feet above the

The n·w shaft is down 6 fathoms, and the rise is up 2 fathoms 4 feet above the 20 fm, level.

CUIDEA.—F. Puckey, Nov. 11: In the 142, west of Walker's shaft, we are cutting out the iode, and have cut into it 3 feet; as far as seen the lode is looking very promising, composed of quartz and a good-natured peach, and occasionally producing good stones of tin. In the stopes in the back of this level, east of the winze, no lode has been taken down since last reported on. In cutting out the lode, and stoping the same in the 130, the lode is without change, still very large, and in places producing good work for tin. The stope in the bottom of the 10c, from the winze, is 8 ft. wide, and worth 20c, per fathom. In the two stopes in the back of the 10c the lode is without alteration, still 8 ft. wide, as d worth 15t. per fathom. All our operations, both underground and at surface, are b-ing ursed on as fast as possible.

OWM DARREN.—R. Clooker, Nov. 1:4 The men are making fair progress in slaking the engine-shaft, which is in good orey lode for 8 ft. 6 in. wide, but the course of ore in the present bottom is better than it has at all been, and the lode continues to yield a larger quantity of rich sliver-lead ore the deeper we get down. The brace of the shaft is so crowded with ore stuff that we are obliged to add another boy and girl to our picking force, so as to get rid of the ore to make

for further drawing; of course, the selected ore is for crushing, and pre-

room for further drawing; of course, the selected ore is for crushing, and preparing for the market.

DRAKE WALLIS.—Thos. Gregory, Nov. 12: We have cut through the bar of capels in the 50, east of Brenton's shaft, and the branches have again improved to 15t, per fathom. We have communicated No. 1 winze below the 50, east of Brenton's, with the 60, which has laid open a profitable piece of stope ground. The branches in No. 2 winze, west of Brenton's, are worth 12t, per fathom. Good progress is being made in the 60 fm. level cross-cut south towards No. 2 winze, and there are indications of being near the south tin branches. There is no change to report in any other part of the mine.

EAST CARADON.—J. Truscott, Nov. 11: Caunter Lode: The 115 east is now worth 5t, per fathom. The 100, east and west, is poor. The 90 east is worth 5t, per fathom.—South Lode: The 70 west is worth 5t, per fathom.—Child's Lode: The 80 east is poor. The 80 west is worth 5t, per fathom.—The 70 west is worth 15t, per fathom.

EAST CARN BREA.—I. Richards, Nov. 11: The lode in Thomas's engineshaft is 15 in. wide, composed of capel, quartz, mundle, and good stones of copper ore.—Thomas's Engineshaft—No. 3 Lode: The lode in the 90 west is 1½ ft. wide, consisting of quartz, capel, mundle, and a little copper ore. A rise (Aver's) is being put up in the back of the 90 west, is lo in which, and worth 1½ ton of copper ore per fathom. The lode in the 80 west is 3ft. wide, consisting of quartz, capel, fluor, and saving work of copper ore. The lode in the 80, west of Davie's cross-cut, is 1ft, wide, consisting of capel, quartz, and saving work of copper ore. The lode in the 80, west of Davie's cross-cut, is 1ft, wide, consisting of capel, quartz, the solid in William's rise, in the back of the 50 west, is 15 in. wide, and worth 1½ ton of copper ore. The lode in William's rise, in the back of the 50 west, is 16 in. wide, and worth 1½ ton of copper ore. The lode in William's rise, in the back of the 50 west, is worth 1 ton of copper ore per fathom. The

worth 1 ton of copper ore per fathom. The lode in the 60, east of Buckley's shaft, is 2 ft. wide, composed of capel, quartz, mundic, and a small portion of copper ore.

EAST PROVIDENCE.—J. Nancarrow, W. White, Nov. 7: At our survey to-day the following work was set:—Boorman's shaft to sink below the 106, by nine men and three boys, at 30t, per fm.; the lode recently come into the shaft is 1½ ft. wide, and yields tin to save, and is likely to improve, as the granuite about the lode is greatly changed, and is now most congenial for tin. The 106, to drive east of Boorman's, by six men, at 7t, per fm.; this end is expected to reach the carbona lode in another month. The 94 to drive south-east on the carbona lode, by four men, at 44. 10s, per fm.; lode still disordered by the coming into the end; we already see it 3 ft. wide, but have not yet reached the north wall. The 70 east to drive by four men, at 31. 10s, per fm.; lode still disordered by the cross-course. The 40 to drive east by two men, at 34. 10s, per fm.; lode still disordered by the cross-course. The 40 to drive east by two men, at 44. 10s, per fm.; lode small. We have also set 13 pitches, to 26 men, at 12s. 3d. in 1l.

EAST ROSEWARNE,—C. Glasson, Nov. 5: In King's shaft sinking below the 215, the lode is 10 in, wide, composed of a beautiful soft spar, mundic, and copper one, worth 5l. per fm. In the 115, cest of shaft, the lode is 10 in, wide, worth 6l. per fathom. In the 115, east of shaft, the lode is 10 in, wide, worth 6l. per fathom. In the 115, east of shaft, the lode is 10 in, wide, worth 6l. per fm. In the 15 west of shaft, the lode is 10 in wide, worth 6l. per fm. In the 15 west of shaft, the lode is 10 in wide, worth 6l. per fm. In the 15 west of shaft, the lode is 10 in, wide, worth 6l. per fm. In the 15 west of shaft, the lode is 10 in, wide, worth 6l. per fm. In the 95 west of shaft, the lode is 10 in, wide, worth 6l. per fm. In the 95 west of shaft, the lode is 10 in, wide, worth 6l. per fathom. In the 115, east of shaft, the lode is 10 in,

will be suspended for this month, the men being put in the rise in back of the 105, west of the shaft. In the 95, east of shaft, the lode is 12 in. wide, worth 31. per fathom.

EAST WHEAL GRENVILLE.—G. R. Odgers, Wm. Bennetts, Nov. 11: The lode in the 110 east is from 20 in. to 2 ft. wide, and not looking quite so well; a patch of soft ground has come in, which has disordered the lode; but this lode being subject to such changes we take little or no notice of it, as we think and believe it will shortly improve again. The lode in the 95 east is worth 1 ton of copper per fathom, and which has a promising appearance. In the 85 the men have not yet finished stoping in the granite. The lode in the 75 east is in two parts, together producing 1½ ton of copper ore per fathom, with precisely the same features that the lode presented at the 55, before meeting with the good ide; we, therefore, anticipate good results here. The lode in the 65 is undergoing a change very similar to the 55. The lode in the 55 is 18 inches wide, and worth 2 tons of copper ore per fathom—a good lode; here we are putting in all pipes, and as soon as complete we propose to put up a rise against the 45, which will be on a good lode, worth more than 3 tons of copper ore per fathom. The 45 cross-cut is now within some 5 or 6 ft. of the lode.

EAST WHEAL REETH.—T. Uren: We had many difficulties in the adit, but Inow hope we have overcome the worst, having let down the water to this level. The footroad is put in, and the sollar in the eastern shaft, and we expect in a week more to see the adit end. The old men must have had a large quantity of tin there, as we find good stones of tin among the loose stiff in clearing it.

EAST WHEAL RUSSELL—W. Richards, Nov. 12: The ground in the crosscut south, in the 130 east, is of the same character—killas and elvan, with numerous small branchese crossing the end, containing quartz, peach, a little mundle, and copper ore. We are progressing with clearing and cutting abroad the level east of the Tunnel, on the cou

the Tunnel, on the course of the north lode, to-morrow, and I anticlpate a good improvement as we advance towards and east of the cross-course. There is no change in the other points.

BEURY.—Wm. Kitto, Nov. 12: Our operations during the early part of the past month were confined to the sinking of the shaft below the 50, and driving the 60 end eastwards towards the swallow, prior to driving the said 50 west-wards towards the ore ground in that direction. In the first-named place—the sinking of the shaft—I have nothing whatever new to communicate; the ground is hard, and the lode poor. I hope by the end of another month the shaft will be down the required depth for another level. In the 50, as before intimated, we have commenced to drive westward; the result is that we have struck into a large sough or eavity, which is fully 4 fathoms long, and filled to within a foot or two of the roof or top with clay and sand, and occasional lumps of lead ore. In the roof or the pitch clay is large, showing showing good blotches of lead in places. In the extreme west end of the sough, so far as I can yet see, there is a better show of lead; I should think almost sufficient to pay the cost of driving the level, but I cannot speak pestively ere we have brought the level, which is now 3 fms. behind, up to it. I should here remind you that the roof of the sough is not so high as the roof of the level, consequently we have to blast our way forward. The depth of the sough of course I cannot give you, but I think there can be but little doubt of finding ore at the bottom, as everything bespeaks it. On the whole, I consider our prospects are looking very encouraging.—P.S.—We have this day sold 3½ tons of lead ore, at 121, 5s, 6d, per ton.

GAWTON COPPER.—G. Rowe, G. Rowe, jun., Nov. 7: Our progress in sink-

are looking very encouraging.—P.S.—We have this day sold 5¼ tons of lead ore, at 121, 58, 6d. per ton.

GAWTON COPPER.—G. Rowe, G. Rowe, jun., Nov. 7: Our progress in sinking King's engine-shaft is very satisfactory, which is now down 10 fms. 2 ft. 8 in. below the 70, and the ground in the present bottom is a beautiful mineralised killas. The lode in the 70, east of said shaft, is worth 3 tons of ore per fathom. The lode in the winze sinking below this level, east of cross-cut, is worth 8 tons of good quality ore per fm. The lode in the stope in back of the same level is worth 3 tons of ore per fathom. The lode in the stope in bottom of the same level, west of cross-cut, is worth 4 tons of ore per fathom. The 60 east is without change since last reported on. The lode in the winze sinking below the 60 east is worth 4 tons of ore per fathom. No other change in any point of operation. Our monthly settings will be to-day, particulars of which we will forward early in the coming week.

GONAMENA.—R. Pascoe, Nov. 10: Venning's lode at the 138 west is worth 2 tons of copper per fm. The lode in the winze sinking below the 126 is worth about 3 tons of ore per fathom. The stope in the back of the 126 worth 4 tons of ore per fm. Glipin's lode in the life ast contains good stones of ore, but not enough to value.

about 3 tons of ore per instance. The state of the state of the per of ore per fm. Glipin's lode in the 114 cast contains good stones of ore, but not enough to value.

GREAT CWMSYMLOG.—R. Clocker, Nov. 12: In driving Oliver's adit during the last few days the men have been taking down the south side of the level, where we find some good silver-lead ore, the lode on this side having a most promising appearance. Finding that there are voins of this rich ore on the lode so far south as we have yet gone, we think it desirable to strip down the lode still further to the south, to prove if there be not ore more towards the south wall of this great lode. In my next report you shall know how this part of the vein looks.

GREAT NORTH DOWNS.—Wm. Rich, Nov. 11: The sinking of Sieggan's engine-shaft below the 34 is being urged on without delay; we are sinking on the south wall of the lode, and intend to cut into it occasionally, to prove its composition. The 34, west of Sieggan's, last improved since last report, now worth 15L per fm. The lode below the 74, west of Sieggan's, last improved since last report, now worth 15L per fm. The lode below the 74, west of Sieggan's, last worth 15L per fathom. The tode at Butler's shaft, sinking below the 75, is large; the part carried is worth 5L per fathom. The 75, east of Dutler's worth 15L per fathom. The lote in the buttom of the 64, and east e 75, is large; the part carried is worth 51, per fathom. The 75, east of titler's, is worth 101, per fathom. The lode in the bottom of the 64, and east the 75 end, is worth 151, per fathom. The stopes in the 64 east are worth 102, and 61, per fathom. The branch or lode in the 64 cross-cut south yields-od stones of ore. Butler's north lode, at the shaft sinking below the 54, is of stopes in this level are worth 101, and 81, per fm. We have sold the tinne, which realised 2661, is.

worth 51. per fathom. The 84, west of King's, is without alteration to notice. The stopes in this level are worth 101. and 51. per fm. We have sold the tinstone, which realised 2961. Is.

GREAT RETALLACK.—G. R. Odgers, J. Harris, Nov. 7: Setting Report: No. 1 Lode: The 30 to drive south from the shaft, by four men, at 31. per fm.; lode 51 ft. wide, with good stones of lead; here the men will be engaged cutting barrow-road and plat, previous to resuming the sinking, which will take them another month. The 20 south by four men, at 21. 15s. per fm.; lode 15 in. wide, with good stones of lead; here the men will be engaged cutting barrow-road and plat, previous to resuming the sinking, which will take them another month. The 20 south by four men, at 21. 15s. per fm.; lode 15 in. wide, with stones of lead. The stope above this level, to four men, at 27s. 6d. per fm.; lode worth 4 cwts. of lead to the fathom. The winze to sink below this level, by four men, at 31. 19s. per fm. lode 15 in. wide, with a leader of lead; we think this winze when holed will enable us to stope some lead ground. The 20 north, by four men, at 41. per fm. lode 15 in. wide, with a leader of lead; we think this winze when holed will enable us to stope some lead ground. The 20 north, by four men, at 41. per fm. lode 15 in. wide, with good lumps of lead, worth 2 cwts. of lead per fathom.—No. 2 Lode: The 40 to drive both north and south, by six men, at 41. per fm.; lode 18 in. wide, of friable quartz and white from, containing good stones of lead; these are two highly promising ends, and which from their appearance ought to make lead. At the 30 we have placed two men to strip down the side of the lode, as we are thinking the branch of lead on which the winze below the 20 is sunk, may be standing in the side. The winze to sink below the 20 north, by six men, at 51. 1es, per fm.; there is a good branch of lead in the winze, but more especially in the north end, which will produce fully 15 cwts. per fm.—Ground excavated during October: No. 1 shaft sun

i feet in.

I feet in.

Harris, Nov. 12: No. 1 Lode: The lode in the 30, south from No. 1 shaft, is 2½ ft. wide, of quartz, &c., with a leader of lead on

Like western side, worth 6 cwts. to the fathom. The lode in the 30 north is 15 in. wide, containing good lead, but not to vaine. In the 20 south the lode is 16 in. wide, of quarts and fraible spar, with a little lead—a kindly lode. The lode in side, of quarts and fraible spar, with a little lead—a kindly lode. The lode is 16 in. fathom. In the 20 north the lode is 18 in., wide, of quarts, &c., worth 2 cwts. of lead to the fathom.—No. 2 Lode: The lode in the 40, north and south, is 18 in. fathom. In the 20 north the lode is 18 in., wide, of quarts, &c., worth 2 cwts. of lead to the fathom.—No. 2 Lode: The lode in the 40, north and south, is 18 in. wide, principally white from, with occasional stones of lead in the north end. and producing little lead, but the shoot. Is standing to the north end was an opportunity of the shoot. It is a lot to the side of the shoot is 10 in a lot with a lot of the was an opportunity of the shoot. It is a lot of the side of the shoot is standing to the north end was an opportunity of the shoot. It is a lot of the side of lots better than the shoot lead to the fathom; a way so we have the side of lots better than the shoot and the side of lots better than the shoot and the side of lots better than the shoot and the side of lots better than the shoot and the side of lots better than the shoot and so we should be side of lots better than the shoot and so we should be side of lots better than the shoot and so we should be side of lots better than the shoot and so we should be side of the side of lots we should be side of lots which should be side of lots and the grade should be side of lots and the side of lots and the grade should be side of lots and the side of lots and the side of lots and the side of lots and should be side of lots and side of lots and side of lots and side side of lots and side of lots and side of lots and side side of

be obtained, and this portion of the mine placed in a good position. The ground in the big cross-cut is without change to notice.—Five Shaft: The stope in bottom of the 40 yard level is worth 10 cwts, of lead per fathom. The pitch in back of this level is worth 5 cwts, of lead per fathom. The dressing is progressing as usual.

MOUNT GABRIEL.—Nov. 2: During the past month the level has been extended 4½ fathoms, and there is now about 9 fathoms of ground opened on the course of the lode from the 30 fm, level cross-cut; no portion of this ground has been without indications, more or less strongly developed, of a good lode, and since last reported a branch of baryta, 6 in. wide, has fallen into it, but the end does not show any immediate prospect of any more favourable change. The flookan still continuing against the wall affords some freedom in driving; set on Saturday at 3£, per fathom. I should much wish to push out the driving to intersect this lode from the 20 fm. level cross-cut, as before recommended, about 5 fathoms ought to do this, and it would at once throw great light on the subject. We have had to contend with a greatly increased flow of water, and it is impossible to keep it in fork and draw the stuff with less than three horses.

NEW DEVON CONSOLS.—Nov. 10: Trewollack Mine: I was all through the mine yesterday. The engine-shaft is being sunk in a clean beautiful killas; I calculate on the men sinking more than 3 fms. this month. The ground in the new or flat-rod shaft is pretty easy; I calculate on sinking from 4 to 5 fms. this month, so we shall soon get down for a 10 fm. level; the lode is small, but yielding some beautiful stones of lead; we are not yet carrying down all the lode. As the part on the under wall is good for lead we are leaving it until we get down a little deeper, and then put in a sollar to break it; it is not large, but very good work, on the whole, looking very promising, and the new 6-in. lift keeping out the water very well. The lode in the 20 at the engine-shaft, is not so goo

ne, at 114. 11s. per ton.

NEW WHEAL LOVELL.—Chas. Bawden, J. Priske, Nov. 11: Hill's EngineNEW WHEAL LOVELL.—Chas. Bawden, J. Priske, Nov. 11: Hill's Engineore, at 114. Hs. per ton.

NEW WHEAL LOVELL.—Chas. Bawden, J. Priske, Nov. 11: Hill's Engine-Shaft: The lode in the 62 east is large, but poor. The lode in the 50 east is 3 ft. wide, and tinny; this level is now approaching the bunch driven over in the level above, and, from present appearance, will shortly be in valuable ground. We have set a winze to sink in bottom of this level, on a lode worth 20. per fm. for length of winze—8 ft. Lanyon's shaft is holed to the 50, and the men engaged cutting tip-plat. The lode in the 40, east of Lanyon's, is about 3 ft. wide, worth full 20. per fathom. The lode in the stope in back of this level is 4 feet wide, worth 26. per fathom. Colonel's shaft is in course of sinking below the 20, and is down about 6 fathoms, the lode in which is worth about 10!, per fathom. The 20 east has been driven from shaft 27 fms.; the lode for all the driving has opened up paying ground. The winze sinking below the 20, about 8 fms. east of shaft, is down 7 ft., the lode in which is worth 40!, per fathom. We look forward to opening a great mine in this part on reaching a deeper level.

NEW WHEAL TOWAN.—R. Pryor, Nov. 11: The ground in the winze sinking below the adit level is just the same as when last reported on, but within the last day or two we have cut a caunter lode, from which we have broken some good stones of copper ore, internixed with prian and mundic, and, as far as yet seen, its appearance is good.

NORTH DOWNS.—F. Pryor, J. Williams, Nov. 10: We have driven the 95 east of King's sump-shaft 8 ft.; the lode is poor, but presenting just the same as weekeen, its appearance as in the levels above at this point of operation. The 85, driving week of the same shaft, is letting out a large quantity of water; although por at present we are expecting a change for the better, judging from the channel of ground. We may agala remind the shareholders of the importance of the result of discovering ore or not in those ends, the same being under the elvan.

or ground. We may again remind the snareholders of the importance of the result of discovering ore or not in those ends, the same being under the elvan. The 50 has recently improved, more in the appearance of the lode than as to the value of the same; now producing good stones of ore. The 40, although at this time rather disordered produces good stones of ore. The rise in back of the 50, up 7\frac{1}{2} fms., is now in the elvan; this speaks well for the 40, as we have at all times had a good deposit of ore when the lode is near the elvan. The 60

west, on the south lode, is at this time poor. The same may be said of the 50, both east and west, on the same lode. No. 1 stope, west of Phillips's rise, is worth 8l, per fathom; No. 2, east of ditto, 10l, per fm. Five pitches in all are working at an average tribute of 8s. 6d. in 1l. We have commenced to stamp from Peever, and in the course of a very short time we shall be able to submit to the committee our opinions as to what we shall further recommend being done in this portion of the mine.

NORTH POOL.—J. Vivian and Son, F. Clymo, Nov. 12: Ballarat shaft is now 4 ms. under the 40, where the lode is 5 ft. wide, presenting a very favourable appearance, and producing some good copper ore. The stopes in the back of the 40 continue to produce 2½ tons of copper ore per fathom, and the ore ground lengthening westward. We sold to-day 24 tons of copper ore (the parcel baving been computed to be 21 tons, and so called in the Ticketing paper), which has realised 5l. 11s. 6d. per ton, making 133l. 16s.

NORTH RETALLACK.—G. R. Odgers, J. Harris, Nov. 7: We have to-day set the 20 to drive north from the No. 1 shaft, by six men, at 2l. 2s. per fm.; lode 15 to 18 in. wide, of quartz, with good stones of lead embedded in a very congenial killas.

15 to 18 in. wide, of quartz, with good stones of lead embedded in a very congenial killas.

NORTH ROSKEAR.—J. Vivian and Son, Nov. 12: In Pearce's shaft we continue to sink through a good course of copper ore, the lode being 6 feet wide, and worth 40!, per fathom. In the winze sinking under the 205, west of Pearce's shaft, there is also a good lode for copper, being worth 35. per fathom. There is nothing new to remark on in the 205, east and west of Pearce's shaft. In opening into the tin ground under the 230, west of Doctor's shaft, the lode produces tinstone of a good average quality, and is worth about 25. per fathom. The tin stopes generally are producing tinstone of a low average quality, but combined with a large proportion of arsenic, which now realises a much better price than we have had for some years until very recently. We are driving the 24 east in the Wheal Crofty or castern part of the sett, through a lode 2 feet wide, producing some good copper ore, and presenting a promising appearance for that ore. Our parcel of copper ore sold to-day has realised 54. 8s. 6d. per ton, amount 461. 2s. 6d.

OLD GUNNISLAKE.—W. C. Cock, Nov. 11: We shall complete the collaring up of Parker's shaft to-morrow, when we shall at once put in penthouse in the 48. and prepare for sinking as fast as possible. No alteration in the cross-cut north; ground good for driving. The cross-cut south in the 91, with all other work at Michael's, is being suspended, except that of sending up the tributers' work, which we are now engaged about.

PENHALE UNITED.—R. Pryor, H. Bennetts, J. Pryor, Nov. 12: The lode in Phillips's engine-shaft, sinking below the 90 fm. level, is very much improved, and is 2ft. wide, worth 10 cwts. of lead per fathom. The rise in the back of the 90 fm. level, onthe of shaft, is worth 5 cwts. of lead per fathom. We have suspended the driving of the end north until the rise is communicated to the level above, for ventiation. The lode in this level; south of shaft; the over the south of hall's shaft; the level NORTH ROSKEAR.—J. Vivian and Son, Nov. 12: In Pearce's shaft we con

worth 104, per fm. A stope 20 fms. west of this is worth 124, per fm.; and the 20 west, on same lode, 104, per fm. west of this is worth 124, per fm.; and the 20 west, on same lode, 104, per fm.

PRINCE OF WALES.—J. Gifford, W. Gifford, Nov. 10: There has been no lode taken down in the 65, east or west, sluce our last report. The men have been engaged fixing a 9-tinch plunger-pole in the bottom, at the 45, in place of a 7-inch one, and which is working very satisfactorily, and we hope to have the water in fork to the bottom by the latter part of this week. In the 55 east the lode is worth 304, per fathom. In the winze in the 55 east the lode is worth 304, per fathom. In the winze in the 55 east the lode is worth 104, per fathom for the south part, which we are carrying. In the 55 west the lode is 2½ feet wide, yielding saving work, but not to value. In the cross-cut south, in the 55 west, the supposed new lode is 1 foot wide, composed of capel, quartz, and mundic, with occasional stones of ore intermixed. In the stope in the back of the 55 west the lode is worth 184, per fathom. In the stope in the back of the 55 west the lode is worth 184, per fathom. In the stope in the back of the 45 west its worth 154, per fathom. No change in any other part of the mine.

PROSPER UNITED.—J. Hall, F. Bennetts, Nov. 12: The lode in the 100, west of Hand's shaft, is 3ft. wide, worth 104, per fm. for tin. The 90, west of Hand's, is roughly shared to the stope in the back of the 3c producing stones of copper ore. The 90 cast, on Gwallon lode, is worth 31, per fathom. The stopes in the back of the 80, west of Hand's, are worth 71, per fathom. The winze sinking below the 60, on Pope's lode, is worth 31, per fm. The copper ore. The 50 cast, on Gwallon lode, is worth 31, per fm. The winze sinking below the 60, on Pope's lode, is producing a little tin. The 60 west, on Pope's lode, is worth 32, per fm. The back of this level are worth 74. per fm. The stopes in the back of this level are worth 74. per fm. The stopes in the back of thi

change in this direction, as the rock is now thickly mixed with strong yellow copper ore.

ROSECLIFF AND TOLCARNE.—R. Pryor, Nov. 11: The lode in the 50 fm. level, driving east of Lindo's engine-shaft, is 2½ ft. wide, producing good stones of lead, and the end is letting out a quantity of water. The ground in the 30 cross-cut, driving north of shaft, is still favourable for driving, and we think it is nearing a lode or branch.

SNAEFELI.—H. James, Nov. 9: The lode in the shaft is without any particular change to notice since last report; the character of the ground is harder and more favourable for the production of ore in depth; the speed of sinking is about 2 fms. a month. The 60 south is not driving at present. In the 60 north he ground is much harder; lode also hard and increasing in size, more mixed with spar, producing occasionally a little lead and blende, but not yet enough to value; the appearances are decidedly more favourable as we advance, and specially encouraging, seeing that we have a good lode in the 40 sump, beyond this level. In the 50 south we are stoping on a lode worth about 14t, per fm. The 40 end north, no change to notice. The lode in the 40 sump, beyond this level. In the 50 south we are stoping on a lode worth about 14t, per fm. The stopes at the 20 are looking very well, and improved since last report. We are now stoping in the old workings, where we find a rib of ore 2 ft. wide, very good for lead; if this should lengthen in sinking it will greatly assist our ore raisings. The lode and ground in the south adit are about the same in appearance as they have been for some time. The crushing-mill and washing-floors are now nearly completed, and we shall soon be ready for dressing.

SORTRIDGE CONSOLS.—R. Jackson, Nov. 12: In the 152, east of the engine-shaft, the lode is 3 ft. wide, composed of spar, capel, mundie, and good stones of copper ore, but not to value. There is no change to notice in any other part of the mine.

of the mine.
SOUTH CONDURROW.—J. Vivian and Son, W. Williams, Nov. 7: In the 93 SOUTH CONDURROW.—J. Vivian and Son, W. Williams, Nov. 7: In the 93 we are making good progress in driving south on the cross-course, east of King's shaft, not having yet intersected the tin lode. In the 93 south, west of King's shaft, we are meeting with branches of tin capel, containing tin, which are dipping south towards the lode. In the 72, cross-cut south, west of King's shaft, we have not yet got into the main part of the lode, but the tin capel through which we are passing is of good quality, being thickly traversed by veins and seams of tin. In the 61, west of King's shaft, we have cut completely through the lode from the stope to the level, which we have been driving east to the south wall, and find the lode at this point 4 fms. wide, composed of tinstone of good quality, being in fact better than we have before seen it. In the western end of this level which has been driving by side of the lode, on the south wall, we shall now proceed to cut through the lode. In the 51, cross-cut south, west of Vivian's shaft, we have driven 10 ft., and intersected a branch about 3 in, wide, containing yellow copper ore; we shall continue this cross-cut further. At the large stamps we have now 16 heads at work, and shall shortly have 20; and have 6 heads at work at the small stamps. We find the tinstone turning out equal to our expectations.

large stamps we have now to heads at work, and statis interplate year of heads at work at the small stamps. We find the tinstone turning out equal to our expectations.

SOUTH WHEAL GRENVILLE.—G. R. Odgers, Wm. Bennetts, Nov. 7: The men are getting on as fast as they possibly can with the sinking of the engine-shaft, but there is no change since our last report.

ST. JUST AMALGAMATED.—R. Pryor, Wm. White, R. Wearne, Nov. 10: Phillips's engine-shaft to sink below the 50, by six men, at 8£ 5s, per fathom, in a lode 2½ feet wide, producing good stones of tin.—Saveall's Lode: The sinking of Saveall's engine-shaft is completed to the 110, and we have set the 110 to drive east and west of shaft, by six men, at 4£ 15s, per fathom. The 10t of drive west of the shaft, by two men, at 5£, per fathom. The 10t of drive west of the shaft, by two men, at 7£. 7s, per fathom; the lode is worth 4£, per fathom and the worth 5£ per fathom.—Owl Lode: The 40 to drive north of Reddipper shaft, by two men, at 7£. 7s. 6d, per fathom; lode worth 4£, per fathom; the lode is worth 4£ per fathom—orbid shaft, by two men, at 5£. 15s. per fathom; the lode worth 7th, per fathom. The 10t of drive north of shaft, by two men, at 5£. 15s. per fathom; the lode worth 7th, per fathom. The of shaft, by two men, at 5£. 5s. per fathom; the lode worth 6£ per fathom. The winze to link below the adiat level, on ditto, by four men, at 6£. 10s. per fathom. The 20t o drive worth 6£ per fathom. The winze to link below the adiat level, on ditto, by four men, at 6£. 10s. per fathom and the worth 7£ per fathom. The 20t odrive east of Reddipper shaft, by two men, at 5£. 5s. per fathom; the lode worth 6£ per fathom. The winze to link below the adiat level, on ditto, by four men, at 6£. 10s. per fathom and the worth 7£ per fathom. The 20t odrive east of Reddipper shaft, by two men, at 5£. 10s. per fathom; lode worth 7£ per fathom. The 20t odrive east of Reddipper shaft, by two men, at 5£. 10s. per fathom; lode worth 6£ per fathom and the set of the per fathom. The 20

SUMMER HILL.—Wm. Wasley, Nov. 12: I have set Wynne shaft to eight nen to sink 41/2 yards, which will make it 40 yards below surface, at 80s, per men to sink 4½ yards, which will make it 40 yards below surface, at 80s. per yard; the men to pay all costs. I am glad to say that the flat in the end driving east on the new ore course is taking a drop, which is a very favourable indication for the production of ore. The ground is also easier for driving, therefore very good progress is being made. The ground and flat in the south-west level, driving towards Wynne shaft, is without any alteration to notice since my last report.

fore very good progress is being made. The ground and hat in the south-westevel, driving towards Wynne shaft, is without any alteration to notice since my last report.

TREREW.—Nov. 10: We have cut the lode at the 20; it is cut into about 4 ft. and no sign of any under wall yet; it is a strong lode, nearly all mundle, and very spare for driving. It is not unusual to see plenty of mundle, in places, in the best of lead mines in the Perran district. The ground in the engine-shaft is very good. We went all through the adit yesterday to look at the lode; it is a fine strong lode, with a little mundle and spots of lead.

VIGRA AND CLOGAU.—Wm. J. Holman, Nov. 12: A little visible gold has been broken from the stope east from No. 6 shaft; the lode is 6 feet wide, and some parts of it look well. The lode in the end, being driven west from same shaft, is 5 ft. wide, and of the usual quality. In the end east of No. 1 shaft the lode is 4 ft. wide, and still rather poor. The men from No. 5 stope are yet engaged at winding water and still from No. 5 shaft. At the Old Clogau Copper Mine the sinking of the incline shaft is being continued as usual in dead rock, as the driving of Jenny's adit, at Vigra Mine. The boys from the reduction works are employed on the minepicking quartz. A lift of pumps is being prepared for No. 6 shaft, and when put in will effect a material saving in the water cost at that place. I shall be able to forward you a bar of gold next week.

WEST DEVON CONSOLS.—J. Richards, Nov. 11: In cutting in north at the engine-shaft for the purpose of making bob-plat, as I advised you, we met with a branch producing lead ore a very promising feature; this coupled with the fine character of the lode where seen at all points of operation, and the good stones of ore, leads me to believe, tha: it cannot fail on having a fair trial of becoming a real good mine. Soon after the erection of the steam engine good results are anticipated, and the engine shaft he after the erection of the steam engine good results are anticip

or of the case me to believe, that it cannot rained a role good mine. Soon after the erection of the steam engine good results are anticipated, and the engine purchased being a very good one will much facilitate our progress.

WEST DRAKE WALLS.—T. Gregory, Nov. 11: In the 40 fm. level cross-cut south we have an increase of water, and the ground is more favourable for driving. There is no change to notice in the 40 fm. level cross-cut north, in which good progress is being made.

WEST PRINCE OF WALES.—W. C. Cock, Nov. 11: We have no change in the mine since my report for the general meeting. The new lift at the south engine-shaft answers well, and the shaft is again in full course of sinking. WEST WHEAL TREMAYNE.—S, Roberts, Nov. 11: In the 32 end west the lode is 10 iu. wide, and producing good stones of ore. We have now two men and two boys in this end; the stx men who were in this end with two others we have put back to cut a plat, and to make ready for sinking; we shall have to fix some of the pilwork previous to sinking. The 20 west, on the engine lode, is much the same as last reported. No alteration this week in the tribute pitches. WHEAL COURTENAY.—J. Gifford, Nov. 11: In the 20 west the lode is still large, and worth full 81. per fathom. No other change.

WHEAL BULLER.—J. Inch., J. Brown, Nov. 11: Stevens's Shaft: In the 92 east the lode is 4 ft. wide, producing tin, but not to value. The stope in the back of this level is worth for tin 91. per fm. The stope under the 80, west of the shaft, is worth 62, per fm. The 69, driving east of this shaft, on the north lode, is producing 1½ toon of copper ore per fathom. Hocking's shaft, sinking under the 80, is down nearly 10 fms.; the lode in this shaft is producing some good work for tin. The stope under the 80, west of the shaft, on the north lode, is worth for tin 151. per fm. The stope under the 60, west of Knuckey's whize, is worth for tin 160, per fm. The stope under the 60, west of this shaft, on the north lode, is worth for tin 150, west of Whitburne's

level, and the ground still continues favourable for sinking. We have no change in oither of our cross-cuts.

WHEAL GRENVILLE.—G. R. Odgers, Wm. Bennetts, Nov. 7: No lode has been taken down in the 140 west since our last. The lode in the 130 west is 4 ft. wide, and worth 9t. to 10t, per fm.—a pretty lode. The lode in the 120 west is 3½ ft. wide, and producing good tin, worth 10t, per fm. We have a pretty lode in the back of the 66, west from the north shaft, worth fully 15t, per fm. No lode has been taken down in the 66, west from the new shaft. The lode in the 5t west is 15 in. wide, and worth 6t, per fm. The lode in the 42 west is worth 8t, per fm. All the other places are looking much the same as last reported.

—G. R. Odgers, W. Bennetts, Nov. 12: The lode in the 130, west from the new shaft, is 4ft. wide, and producing a little tin, a kindly lode. The tributers are working spiritedly, and they are breaking about their usual quantity of tinstone.

are working spiritedly, and they are breaking about their usual quantity of tinstone.

WHEAL KITTY (St. Agnes),—S. Davey, Wm. Polkinghorne, Nov. 7: In the 82, driving west of Holgate's shaft, the lode is 4ft. wide, but not so good for copper as when last reported, now worth for copper and tin 12l, per fm.—New Shaft, Pryor's Lode: In this shaft sinking below the 9st the ground during the week has changed a little for the better. In the 94, driving east of shaft, the lode is 2ft, wide, and worth for tin 16l, per fm. In the 94, driving west of shaft, the lode is 5ft, wide, and worth for tin 17l, per fm. In the 82, driving east of shaft, the lode is 6de is worth for tin 9l, per fathom. In the 82, driving west of shaft, the lode is worth for tin 12l, per fm. In the 65, driving west of shaft, no change has taken place during the week. In the wince sinking below the 65, west of shaft, no lode has been taken up since our last report.—Caunter Lode: In the 82, driving morth of shaft, the lode is yielding good work for thu.—Vottle Lode: In the 24, driving ast of cross-cut, the lode is producing a little tin, but not to value.

WHEAL UNY.—S. Coade, M. Rogers, Nov. 7: There is no change of importance to report on this week. The ends and stopes are of the same value as last week. We shall sell a parcel of tin on Saturday next.

FOREIGN MINES.

gold per ton, the other from the level east of shaft; I find it will give about 1 dwt. per ton. The clearing up of old San Antonio shaft is still kept on. I hope to get down to No. 1 level in a few days, when I shall commence stopping at once. I think that the quartz from here will give 5 dwts. per ton. During the past month I have sent to mill from here 262 tons of quartz, yielding on an average 5 dwts. of gold per ton of quartz.

Stamping and Grinding: During the month the 12-head stamps have crushed 1370 tons of ore. The stamps and engine are undergoing trifling repairs, but at the end of two days we shall be ready to stamp the arrastras ground about 30 tons of ore. Two cups will be ready in a few days with drag-stones attached, in order to grind the blanket savings and quartz for the coming month. Gold produced from 1400 tons of ore 536 ozs.

JAVALI.—The directors have received letters from the manager and mining engineer of the mine, dated Sept. 30, of which the following is a synopsis:—The underground workings were progressing with greater rapidity, the rock in "Pim's tunnel" having become softer; Mr. Sohne expected it to connect with the Nispero by the end of November. Pollock's tunnel had been driven 8 yards nearer to the Socorro, and was almost in communication with It; the rock in the last part of this tunnel had become harder. Col. Maury says, which heretofore were unknown. A very fine clavo has been met with in the winze which is now being sunk to connect the 6th level of the Socorro with Pollock's tunnel; it is broad, rich, and doelle, and, besides containing a large ley of gold plainly visible to the naked eye, it is most beautifully rich in silver." The health of the men continued perfect. The titles to the land denounced were expected to be received in a few days. The small turbine continued to work well, though not able to drive the full number of stamps erected. The gold remitted is 252 ozs., derived from 850 tons, in a run of 23 days. The month's cost-sheet showed already a reduction of over \$1000. Col. Maury speaks in high terms of the value of the services of Mr. Sohns, the mining engineer, and Mr. Simpson, the engineer in charge of the mills, who constructed, also, the battery of the second 10-head stamps. He writes of these gentlemen:—"The former (Mr. Sohns, your own selection, is, perhaps, better known to you than to me; I have found him ever active and zealous for the company's interests, and in their service; and in the performance of his own duties clever, intelligent, and able, and always ready and willing to lend a hand wherever he could be of service. I doubt if you could find a reduction officer better suited to the circumstances by which we are surrounded here, or better qualified to manage works of this class, however large and extensive, than Mr. Simpson; added to this be is an admirable machinist and mechanic, and has JAVALI.-The directors have received letters from the manager and

EL CHICO.-Oct 8: In reply to the recommendation contained in EL CHICO.—Oct 8: In reply to the recommendation contained in your last to follow the course most likely to bring us into ore soonest, I would remark that I entertain no doubt whatever as to which this course should be, now that the "planes," or bottoms, of the old and rich mine of El Torno have been left dry by our deep adit, which has been driven sufficiently near to the old mine above us to drain it, but without intersecting the principal vein as yet. As I have before remarked, I think the rich silver ore left in El Torno can be reached soonest by clearing up the shaft, for which purpose I have had workmen already employed during the past week in forming the whim round, and in preparation to put up the malacate, also a house for a watchmen, store room, &c. We have also been cutting some ground in the south side of the shaft, in order to give it uniform direction from the surface down to the present level of the staff, which is about 152 varas. This will probably occupy less than three weeks. I am happy to say the supply of ore to the haclenda has considerably increased.

UNITED MEXICAN.—Guanaxuato, Oct. 4: Mine of Jesus Maria y

happy to say the supply of ore to the haclenda has considerably increased.

UNITED MEXICAN.—Guanaxuato, Oct. 4: Mine of Jesus Maria y
Jose: The works are in much the same state as when I last wrote. The accounts
for September are not yet made up, but I am glad to be able to announce to the
board that we shall have a good surplus on the quarter ending Sept. 26. The
sliver duties having been reduced from 5½ to 3½ per cent., the reduction in
duties on the produce of Jesus Maria is equivalent to \$700 per month.—Mines in
the Gnadalupe de la Oscura District: 1 Encinillas there is an improvement,
and more workmen are coming in. The destajo (contract work) going from El
Oro shaft towards Encinillas, on the lode, though not in ore, looks favourable.
The buscones are throwing down some fair ore in the planes (deepest workings)
of El Oro, and from present appearances we hope the quantity may increase.

IMPERIAL SILVER OUARRIES.—Lewis Chalmers, Oct. 5: Having

IMPERIAL SILVER QUARRIES.—Lewis Chalmers, Oct. 5: Having encountered a seam of very unmanageable rock, only 7% feet were mac week; I am in hopes, however, to night's shift will put us through it. — Oct. 12: Nine feet of tunnel were made last week.

— Oct. 12: Nine feet of tunnel were made last week.

RHENISH CONSOLS.—Geo. Sweet, Nov. 4: Bliebach: The drivage west, on the middle lode from the cross-cut, in the 10 lachter level, is still looking well, and the lode improving; by rapidly hastening on this end towards Christiana, we hope to lay open a great quantity of profitable ore ground.—Madonna: We have intersected a lode in the cross-cut, and brought to the surface some splendld stones of lead ore, but the water is so much increased that we are obliged to fix a larger pump in the shaft than the one hitherto used—3½ in., now a 5 in., and in a short time we hope to show on the surface a good pile of rich lead ore. In October month there was extended at Bliebach, in levels 74, in cross-cuts 23; at Christiana, in levels 22, in engine-shaft 7; at Madonna, in cross-cuts 4 = 16·6 lachters.

ANGLO-ITALIAN.—Mr. Pearson Morrison reports—General Operations: Levels Frisa and Poete have considerably improved since my last, having cut in sinking a winze in the former a good bunch of ore, yleiding some 4½ tons per fathom. Level Pozzettic has likewise produced some very good mineral; lode from 3 to 4 feet wide. The above for the present we have suspended, it being necessary to open out some new ground, so as to give a large scope for operations. The various cross-cuts have advanced fairly, and I am glad to say that in the Santa Barbara (the most important of all) small seams of ore have already been mot with—in fact, throughout everything looks well. The mills are now finished, and only await a few trifling alterations in setting them to work, also the large crushing mill; besides, as mentioned in my last quarterly report, a most substantial and effective water-course has been completed.

We shall sell a parted of the on Saturday next.

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new in the outer cross-cut in this level. In No. 4 level we are cross-cutting east and weet; the rock in the cross-cut east is congenial for mineral. The cross-cut east, from a level above the Marmo Rosso, is also in favourable rock; we expect to reach the lode here shortly. The flat, or new lode, continues to hold good. In the end driving south from the first cross-cut it is 6 ft. wide, and in the end driving north 5 ft. The lode in the end, driving southward from the second cross-cut, is 2 ft. wide, and northward 4½ ft. wide. No change to notice in the quartz lode, At the establishment we have erected a jigging-machine for a trial, to see if it is not advantageous to concentrate some of the ore before amalgamating it. The water in the Peschiera Mine is now below the 65 fathom level.

chine for a trial, to see if it is not advantageous to concentrate some of the ore before amalgamating it. The water in the Peschiera Mine is now below the 65 fathom level.

CAPULA.—Capt. Paull, Oct. 7: The water does not go down from the vinces in San Enrique level and east of shaft, and scarcely anything below the Esperanza level. Before we stopped the horse engine the levels and winzes were quite dry, but now we are several varsa deeper in the shaft there is still water in several places in the levels; if we do not meet with a branch soon in the shaft that will led down the water we shall be obliged to drive a cross-cut north to intersect the lodes of El Carmen and San Ignacio, which, when cut, we think will entirely drain the levels and winzes. In the shaft we frequently meet with stones of very pretty whe ere, and sometimes with native silver. We have commenced driving a cross-cut south from the Esperanza end, where I trust we shall meet with the same class of ore we had to the east of the cross lode. In the winze below the Esp ranza level, which is 1½ vara deep, and under San Jorge rise, the branch of ore is narrow, but very rich; to sink a little we are obliged to be continually taking out the water with palls; last week two mer br ke in four days seven bag of this rich ore; I cannot see that we shall be able to increase the extraction before the water is gone. In San Jorge and La Bomba stopes the lode is without much alteration, producing metal that varies from 15 to 30 marcs per monton; the rough, which is the greater part, is the best; the smalls we are obliged sometimes to concentrate, to bring it upto a leys ufficiently high to send to the hactenda; the average produce is nearly 25 marcs per monton. Should the lode continue as good as at present in the stopes for the next three months, we can raise 60 cargas weekly, that will pay the weekly rayas of the mine and reduction charges. We cannot estimate the quantity we may be able to get from below the adit levels east and west before the water is quite

GOLD MINING IN AUSTRALIA—THE PORT PHILLIP AND COLONIAL Company.—In pursuance of the special resolution passed at the meeting held on Oct. 29 (the details of which were reported in the Journal ing held on Oct. 29 (the details of which were reported in the Journal of Oct. 31), authorising the directors to take the necessary steps for the registering of the company with limited liability, in order to reduce the nominal liability upon the shares, an extraordinary general meeting has been convened, to be held on Thursday, for the purpose of submitting the legal resolutions requisite to give a practical effect to the opinion expressed at the meeting above referred to. It may be mentioned that the Port Phillip Company was formed in 1852 for working the auriferous deposits of Australia, and by the step now about to be taken the shareholders will relinquish the Royal Charter randor which the company is at present incorporated, and, at the same under which the company is at present incorporated, and, at the same time, reduce the present 5l. to 2l. shares, and the liability from 4l. to 1l. per share. Although, when the company has been thus reconstituted, the contingent liability—1l. per share—will be equal to the amount at present called up, it does not appear to be even probable that any portion of it will be required, taking into consideration the called any results of the present constraints. More than 60 000 tons that any portion of it will be required, taking into consideration the satisfactory result of the present operations. More than 60,000 tons of quartz are crushed annually, and, with a yield of gold therefrom of about 9 to 10 dwts, per ton, a profit is realised of between 4000\(lambda\) and 5000\(lambda\), every four weeks. During the last ten years there has been paid in dividends the sum of 112,125\(lambda\), (or 115 per cent. upon the subscribed capital), while during the current year the amount has averaged 20 per cent. per annum, although only 13-20ths of the total profits of the mine at present accrue to this company, which has, however, obtained a renewal of its lease for 21 years from 1878.

CHONTALES.-It cannot fail to be encouraging to the shareholders to find that Mr. Belt's first remittance of his prospective estimates exceeds the amount computed. With the additional 10 heads of stamps, which Mr. Belt expected to set to work by the end of October, there can be little doubt but that the whole of his estimates will be at least can be little doubt but that the whole of his estimates will be at least verified. Further additional stamps are on the way to the mines, so that Mr. Belt will speedily have ample appliances to enable him to verify his estimates by results. The most important feature in the mine reports (which appear in another column) is that the lode in the deep main adit level at Consuelo Mine, reported by Mr. Belt in the last advices to be 5 ft. wide, and worth only 3 dwts. per ton, is now reported to be 6 ft. wide, and worth 7 dwts. per ton. This must be encouraging to the shareholders, inasmuch as, by an examination of the section that was issued to them at the general meeting, they can the section that was issued to them at the general meeting, they can at once see the large area of profitably productive ground that will be quickly opened up. It may be added that the mines referred to at the meeting have been advantageously secured, by which the general working of the mines will be greatly facilitated, and the available water-power materially augmented. The remittance by this mail is 536 ozs. of gold; the estimate was 500 ozs.

MINING IN BRAZIL-THE GENERAL BRAZILIAN COMPANY.-The proceedings of the first general meeting are reported in another column. Mr. Henry Haymen (the Chairman), in addressing the shareholders, drew attention to the successful results that have been, and still are being, realised by the Don Pedro Company as an evidence of what the shareholders in the General Brazilian Company had reason to expect from the development of the jacotinga formation. n looked forward to this company at no distant day stand ing at the head of gold mining enterprise.

CWM DARREN SILVER-LEAD MINE (CARDIGANSHIRE).-Few mine CWM DARREN SILVER-LEAD MINE (CARDIGANSHIEE).—Fow mines in the county are opening up so favourably, even in this most fortunate mining district, as the Cwm Darren Mine. The principal operation now is the sinking of the engine-shaft, which must be done whether the lode is orey or not; but in this instance the shaft is sinking on a very large lode, containing rich silver-lead ore, worth 201, per ton (for upwards of 8 ft. wide). The position of the property alone would be sufficient to guarantee great expectations, the mine being surrounded by the rich mines of East Darren, South Darren, Bwlch Consols, Bronfloyd, Cwm Erfin, and others.

MINING IN THE CHIVERTON DISTRICT-THE PENHALE SILVER LEAD COMPANY.—The shareholders will be glad to learn that 20 tons of silver-lead have been sold this week. The lode in Phillips's engine-shaft has improved in value to \(\frac{1}{2}\) ton of silver-lead per fatho
The rise in the back of the 90 is worth 5 ours, per fathors. The rise in the back of the 90 is worth 5 cwts, per fathom, and the lode in that level, south of shaft, is worth 3 cwts, per fathom. Owing to the bottom levels having run together, considerable trouble and delay have been caused, as it has been imperative to render them quite secure, owing to the soft and speedy character of the lode. When they are cleared up operations will, of course, be resumed in new ground. Much attention is being directed to the favourable indications which are presented by the improvement in the value of the lode.

CWM DWYFOR COPPER AND SILVER-LEAD MINE.—The cutting for the 12 fathom level, to intersect the copper lode, is about 20 yards in length and 19 yards in depth, all in debris, the accumulation of the disintegrated rock for ages. The level will now be commenced the disintegrated rock for ages. The level will now be commenced in the cutting, and if the same deposit continues the great lode will be cut into in three or four weeks. The lode will then be driven be cut into in three or four weeks. The lode will then be driven through at right angles, to ascertain its real size, which has never yet been proved, for, although it was cross-out into for some yards, where opened on at the surface, and where it yielded the rich ores, the north wall of the lode has never been reached. What appeared to be the wait turns out simply a portion of the lode left standing full of copper, but harder than at some other points, and requiring only the crusher to render the whole marketable. The ancient miners who opened it had no machinery of any kind, and appear to have worked away only the softer parts of the lode, where the ores were nearly pure, leaving all the main body of the lode standing. It has been asserted by competent judges that the entire lode, if crushed down, would produce as much as the average of all the Cornish dressed ores, while the purer parts would yield 20 to 25 per cent. of copper. This extraordinary lode will now be laid open at a depth of 24 yards below the point indicated, and, there can be no doubt, will yield immediate and large returns of copper from the 12 fathoms of backs which will

then be available for stoping. There is abundance of water for the crusher, which will be the only machinery necessary for working this champion lode for

- With last week's Journal a SUPPLEMENTAL SHEET was given With hast week's Journal a SUPPLEMENTAL SHEET was given containing Original Correspondence—The Fan at Tondu Colliery. by J. D. Leigh—Steam-Boiler Explosions—Bromford Colliery Prosecution—Mechanical Ventilation of Collieries—the Weather and Colliery Explosions—Tube Wells—Gold Fields of South Africa, by John Robinson, F.R.G.S.—Chontales Gold and Silver Mining Company, by G. Noakes—Mining Region of Nevada—West Chiverton—the Royalton—the Gold Fields of New Zealand—Mineral Wealth of the Maritime Alps—the Ventilation of Coal Mines—Duration of Our Coal Supplies—Foreign Mine Reports—Australian Mines—Australian Mineral Products, &c.
- With the Journal of Oct, 31 a SUPPLEMENTAL SHEET was given which contains—New Tubular Liquation Furnace (illustrated) by Gustav J. Günther—Notes on Collieries in South Wales (conby Gustav J. Günther—Notes on Collieries in South Wales (continued)—The South-Eastern District—On Gases found in Coal Mines, and the Principles of Ventilation—Coal Mining in South Staffordshire—Mineral Properties; Creation of Matter (continued), by Samuel Jenkins—Articles on Mineral Properties, and their Reviewers—On the Waste of Mineral and Other Natural Products, by W. T. Rickard—Mining, and the Present Position of the Metal Market (continued)—The Mining Region of Nevada (continued)—Royalton Mine—Prince of Wales Mine, and Capt. Rowe, of Wheal Seton—Practical Engineering, Strains in Girders—Foreign Mine Reports. &c., &c. ders-Foreign Mine Reports, &c., &c.

The Mining Market; Prices of Metals, Ores, &c

METAL MARKET-LONDON, NOV. 13, 1868.

| COPPER. £ s. d. £ s. d. | IBON. Per ton. |
|--|--------------------------------------|
| Best selectedp. ton 76 0 0-77 0 0 | Bars Welsh, in London 6 10 0- 6 15 6 |
| Tough cake and tile 74 0 0- 75 0 0 | Ditto, to arrive 6 10 0- 6 12 6 |
| Sheathing & sheets. 78 0 0- — Bolts | Nail rods 7 0 0-7 2 6 |
| | ., Staffd. in London 7 12 6-8 10 0 |
| Bottoms 81 0 0 | Bars ditto 7 10 0- 9 10 0 |
| Old (Exchange) 64 0 0- 65 0 0 | Hoops ditto 8 2 6- 9 15 0 |
| Burra Burra 80 0 0 | Sheets, single 9 0 0-11 0 0 |
| Wireper lb. 0 0 101/6 - | Pig No. 1, in Wales 3 15 0-4 5 0 |
| Tubes 0 0 11½ - | Refined metal, ditto 4 0 0-5 0 0 |
| BRASS. Per lb. | Bars, common ditto., 6 0 0 |
| Sheetsper lb. 81/4d9d. | Do. mrch. Tyne or Tees 6 10 0 |
| Wire , 8d — | Do., railway, in Wales 6 0 0 |
| , , , , , , | Do., Swed. in London. 10 0 0-10 5 0 |
| | To arrive 5 0 |
| Yellow Metal Sheath.p. lb. 6%d7d. | Pig, No. 1, in Clyde 2 13 0- 2 17 0 |
| Sheets , 634d | Do. f.o.b. Tyne or Tees 2 9 6 |
| SPELTER. Per ton. | Do. Nos. 3,4,f.o.b. do. 2 6 6-2 7 0 |
| | Railway chairs 5 10 0- 5 15 0 |
| Foreign on the spot£20 10 0- 20 12 6 | spikes11 0 0-12 0 0 |
| ,, to arrive 20 10 0- 20 15 0 | Indian Charcoal Pigs, |
| ZINC. | in London, p. ton 7 0 0- 7 10 0 |
| n sheets £24 10 0- 25 0 0 | In London, p. con 0 0- 1 10 0 |
| | STEEL. Per ton. |
| TIN. | Swed., in kegs(rolled) |
| English blocks103 0 0 | , (hammered) 15 0 0-15 10 0 |
| Do., bars (in barrels)104 0 0 | Ditto, in faggots16 0 0- |
| Do., refined | English, spring17 0 0-23 0 0 |
| Banca103 0 0 | |
| straits £100 10 0-101 0 0 | QUICKSILVER (p. bottle) 6 17 0 |
| TIN-PLATES.* Per box. | LEAD. Per ton. |
| IC Charcoal, 1st qua. 1 6 0-1 8 0 | English Pig, com19 0 0-19 5 0 |
| X Ditto, 1st quality 1 12 0- 1 14 0 | Ditto, LB |
| C Ditto, 2d quality 1 5 0-1 6 0 | |
| X Ditto, 2d quality 1 11 0- 1 12 0 | Ditto, sheet20 0 0 |
| C Coke 1 2 0-1 3 0 | Ditto, red lead21 0 0 |
| X Ditto 1 8 0- 1 9 0 | Ditto, white27 0 0-30 0 0 |
| Canada plates, p.ton 13 10 0 | Ditto, patent shot 22 0 0-22 10 6 |
| Ditto, at works 12 10 0 | Spanish |
| · · · · · · · · · · · · · · · · · · · | o 1s. 6d, per box less. |
| - At the works, 18. t | o is. ou, per box less. |
| The second of th | |

REMARKS.—The Metal Market appears now to be steadily pursuing a course of advancement, and nothing has arising during the week to check the improvement which has evidently set in. Orders are coming forward tolerably freely, and there is good reason to expect a considerable increase in them ere long, as buyers are now much more disposed to enter into transactions than they have been for some time. As confidence also is now becoming seven freely established. time. As confidence also is now becoming more freely established operations of a speculative character are more frequent, and there operations of a speculative character are more frequent, and there seems good grounds for anticipating that as the improvement in trade becomes still further advanced these transactions will be more prevalent, and there is little question that they will result in a successful issue, as prices are now decidedly stiffening, and there is every prospect that considerable advances will take place in most metals before long. The statement made by the American Minister, Mr. Reverdy Johnson, at the Lord Mayor's dinner at the Mansion House, on Monday, that all causes of misunderstanding between the United States and this country were now removed, and that all differences were in course of settlement in a way that would be honourable to both parties, will be received with unmitigated satisfaction, as it reboth parties, will be received with unmitigated satisfaction, as it removes all fear of any complications arising with America, and places the two countries once more upon the amicable relationship which they formerly occupied; and we trust that this will result in renewed and extended sommercial transactions, which will be mutually bene-ficial both to them and ourselves. It is matter of much gratification to find that the new minister from the United States has, in his first to not that the new minister from the United States has, in his first important dealings with our Government, shown his desire, and through him we trust that of his own Government also, that everything should be removed which interferes with the good feeling which ought to exist between America and England.

COPPER.—The market has remained inactive during the week, and

as the standard of ores at Swansea has been reduced 3*l*, per ton, prices are rather less firm than they were. Some considerable sales of Chili bar have taken place, amounting from 900 to 1000 tons, at

671, 5s. to 671, 10s. IRON.—In Staffordshire the cessation of orders for shipment to the Baltic has not had the effect of depressing the trade to any considerable extent. Most of the works are tolerably well employed, and the orders are of such a nature as lead to the belief that the demand will carry the trade fairly through the winter. Makers, however, find they cannot secure any advance in prices. In Welsh, at the works, operations continue to be carried on with tolerable regularity, and the hands are generally fully employed, and it is believed that with the commencement of the new year prices will advance. Notwithstanding the close of the Russian season, the rail-mills are busier than they have been for many months past. Prices continue firm, and makers refuse to accept orders for delivery next year at present rates. Rails are being shipped in large quantities to America, and as stocks in that country have become considerably reduced, several good orders are shortly expected to be received. Large quantities also are being shipped to South America, and there are several good orders on the books for that country. From India advices are more encouraging, and there is now some prospect of trade with that coun-IRON.—In Staffordshire the cessation of orders for shipment to th orders on the books for that country. From India advices are more encouraging, and there is now some prospect of trade with that country improving. There is a good demand for bars, principally for the East and continental markets. In Swedish iron the demand is now only limited. In Scotch pig-iron the market has been steady during the week, and a moderate business only has been done. The last received from Glasgow were 53s. 6d. cash, and 53s. 8d. to

LEAD,—Only a moderate demand now exists, but sellers do not

evince any disposition to accept lower prices.

TIN.—The market for Straits is not, perhaps, quite so strong as it was last week, and business has been done at 100% 10s. to 101% cash, and 102% for arrival, still it is not unlikely that the market may again advance, and higher prices be obtained. English is steady at the

bars about 1000 tons sold since Friday last, at 671, to 671, 10s. per ton, the chief portion being of Urmenita brand; some few offers have been made for special portion being of Urmenita brand; some few offers have been made for special portion being of Urmenita brand; some few offers have been made for special portion being of Urmenita brand; some few offers have been made for special portion being of Urmenita brand; some few offers have been made for special portion being of Urmenita brand; some few offers have been made for special portion being of Urmenita brand; some few offers have been made for special portion being of Urmenita brand; some few offers have been made for special portion being of Urmenita brand; some few offers have been made for special portion being of Urmenita brand; some few offers have been made for special portion being of Urmenita brand; some few offers have been made for special portion being of Urmenita brand; some few offers have been made for special portion being of Urmenita brand; some few offers have been made for special portion being of Urmenita brand; some few offers have been made for special portion being of Urmenita brands. portion being of Urmenita brand; some few offers have been made for special parcels at 10s. advance on the highest price named, but importers were unwilling to dispose of any further lots at present values; our quotations, therefore, are rather wide and uncertain. For Chill ingots there were some enquiries at our lowest quotations, but those rates sellers have refused, and appear inclined to hold for the highest range. Nothing has transpired in Australian sorts, but there being no pressure to sell, prices remain unchanged. English is weaker, and rates for manufactured are down fully 11. per ton since our last issue, the fall attracting no business worth reporting.

The RAILWAY REVENUE for the six months ending June 30, as shown by the official accounts of the several companies, has just been carefully analysed by Messrs. WHITEHEADS and COLES, stock and sharebrokers, of Throgmorton-street, and the result of their research has been tabulated in a very neat and convenient form. The columns are so divided as to show in what manner and to what extent the revenue of each company was applied, the division into debenture, guaranteed (reat charges), preference, and ordinary stock payments, showing the respective amounts paid under each head. That the exact position of every company referred to may be readily understood, a noto of explanation has been given, where the interest on the preference stock has only been partially paid, or deferred dividend warrants or stock issued in payment. The table contains a vast amount of information in a small space, and is well worthy of careful perusal by present or intending investors.

The settlement of the fortnightly account took place in the MINING HARE MARKET this week, and general business has scarcely been so ctive or so extensive as we had to report upon in our last.

The standard for copper ore has declined this week 21.

The shares mostly dealt in have been West Chiverton, Chiverton, Marke Valley, Prince of Wales, West Seton, West Frances, Wheai Uny, Chiverton Valley, Great Vor, East Grenville, Grenville, Chon-Uny, Chiverton Valley, Great Vor, East Grenville, Grenville, Chontales, East Caradon, Don Pedro, Great Laxey, and a few other mines. Chiverton Moor, 6 to 6½; Chiverton Valley, 3½ to 3½; Cook's Kitchen, 12 to 13; Drake Walls, 15s. to 17s.; East Basset, 8 to 9; East Lovell, 8½ to 8½; East Trumpet Consols, 2 to 2½. West Chiverton shares have been more in request, and leave off 61 to 62; the lode in the 120 cross-cut, at Hawkes's, in the part being driven upon, is worth 30L per fathom. The winze below the 110, and 7 fms. before the 120 end, is now down 9 ft., and worth 80L per fathom. The 110, west of Hawkes's, on south lode, is worth 50L per fathom. The 110 west, on middle lode, is worth 40L Burgess's shaft, below the 100, is worth 60L per fathom. The 100, west of Batters's, on the north, middle, and south lodes, is worth 115L per fathom. A winze below the 100 is worth 40L per fathom. The points in operation in the mine, in the aggre-

of col. per fathom. Batters's shaft, below the 100, is worth 70%, per fathom. The 100, west of Batters's, on the north, middle, and south 10 lodes, is worth 115% per fathom. A winze below the 100 is worth 40% per fathom. The points in operation in the mine, in the aggregate, are valued at 607% per fathom. Frontino and Bolivia, 14s. to 16s.; Great Wheal Vor, 13 to 13½; Herodsfoot, 44 to 46; Marke Valley, 9½ to 9½; New Lovell, 20s. to 22s. 6d.; New Seton, 52½ to 57½; North Crofty, 30s. to 32s. 6d.; Great Laxey, 20½ to 21½.

Prince of Wales shares have not been so firm, and leave off 38s. to 40s.; no lode taken down in the 65 fathom level ends since our last. The new south lode, in the 45 west, is worth 15% per fathom; the 55 west, on the south lode, is 1 ft. wide, with occasional stones of ore. Trumpet Consols, 13 to 14; North Treskerby, 7s. to 9s.; Providence Mines, 26 to 28; Redmoor, 3s. to 5s.; South Condurrow, 17s. to 19s.; South Great Work, 5s. to 7s. 6d. Stray Park shares have advanced to 7, 9. East Caradon, 5 to 5½; the ends on the caunter lode are worth 10% per fathom, the south lode 3% per fathom, and Child's lode 43% per fathom. East Grenville shares have been flatter, and leave off 3½ to 4; the 110 east is from 20 in. to 2 ft. wide, and not looking so well. The 95 east is worth 1 ton per fathom, the 75 east 1½ to neer fathom, and the 55 east 2 tons per fathom. Tincroft, 16 to 17; West Frances, 34 to 36; West Seton, 190 to 195; Wheal Basset, 70 to 75. Wheal Chiverton shares have advanced to 4½, 4½. Wheal Crebor, 9s. 6d. to 10s. 6d.; at the meeting the accounts showed a cash balance of 106% 4s. 3d. in hand, and liabilities over assets (estimating three months' cost in advance, and crediting ores sampled) of 403%. 11s. 1d., and a call of 1s. 6d. per share was made. The prospects of the mine seem to have a little improved. Wheal Grenville, 30s. to 32s. 6d.; Wheal Kitty (St. Agnes) 3½ to 4; Wheal Mary Ann, 19 to 20; Wheal Seton, 50 to 52½; Wheal Trelawny, 7 to 8; Wheal Luny, 3 to 3½; Don Pedro, 3½ to 4; Yud

sent remittance is 36 ozs. in excess of Mr. Belt's estimate, published in his report of September 5.

Some two or three years ago we expressed our surprise that a call was not made to pay off the debts of Condurrow, now called "Pendarves United Mines;" and we pointed out the evils which would necessarily arise from the system of management then pursued. We may now call our readers' attention to the statement of accounts circulated among the shareholders in May last, and which, crediting tin sold 16,987l. 11s. 6d., were made to show a profit in six months working of 999l. 14s. 4d., and a balance in hand of 1879l.5s. These accounts were said to be examined, passed, and "signed by the adventurers present," and the purser added his "undiminished confidence in the perfect success of the undertaking." The next, and last, meeting was held on Oct. 29, and the accounts, crediting 13,741l. 1s. 6d. for tin, show a loss on the six months of 10,955l. 14s. 5d., and a balance against the company of 9076l. 9s. 5d. Anything more startling than this, after the accounts passed in May, it is almost impossible to conceive; and, fortunately for the credit of the county of Cornwall, we believe the accounts now presented are as unprecedented as they are startling. The merchants' bills, which in the six months ending Dec., 1867, were 5249l. 14s. 9d., swell up to 13,357l. 3s. 4d. in the six months charged at last meeting, and while in May there was a balance in hand (or said to be so) of 1879l. 5s., there is now said to be 8505l. 3s. 11d. due to the West Cornwall Bank, 3758l. 2s. 1d. to merchants, and 688l. 16s. 9d. to lords for dues, making a debt of 12,952l. 2s. 9d. And, strange as this debt may seem after the accounts and report circulated in May, the explanation of the purser is still stranger. He says—"The merchants' bills belonging to the six months amount to 5886l. 7s., and the 13,357l. 3s. 4d. in the statement now sent round, includes items which in the course of 24 years had been paid for, but not charged; who then paid for the

The Market for Mining Shares on the Stock Exchange has been active during the week, with a large business. Don Pedro and Rossa Grande shares have been in special request, at enhanced prices. At the meeting of Don Pedro, on the 24th inst., the directions of the state of the stat prices. At the meeting of Don Fedro, on the 24th inst., the directors will recommend the payment of a dividend of 3s. 6d., instead of 3s., on account of the yield for September being larger than was expected; they close 3½ to 3½ prem. St. John del Rey, 17 to 18; Rossa Grande, ½ to ½ prem.; ditto, paid-up, 1½ to 1½; Anglo-Brazillan, 1-16th dis. to 1-16th prem.; Pestarena, 1½ to ½ dis. A considerable business has been done in General Brazillan shares, at 1-16th derable business has been done in General Brazilian shares, at 1-16th to \(\frac{1}{4}\) prem. Chontales, \(2\frac{1}{4}\) it o \(2\frac{1}{4}\) ; Anglo-Italian, par to \(\frac{1}{4}\) prem.; United Mexican, \(1\frac{1}{4}\) its \(2\frac{1}{4}\) ; Frontino and Bolivia, \(\frac{1}{4}\) to \(\frac{1}{4}\); Port Phillip, \(1\frac{1}{4}\) to \(2\frac{1}{4}\); Tudanamutana, \(2\) to \(2\frac{1}{4}\); Nurbudda Coal, \(3\) to \(2\frac{1}{4}\) dis.; Vancouver Coal, \(2\frac{1}{4}\) to \(3\) prem. Those of British description have also been largely dealt in. Chivertons have been in demand, and close at the highest point of the week \(4\frac{1}{4}\) to \(4\frac{1}{4}\). West Chiverton, \(62\) to \(63\) ; at the meeting of this mine, on the \(29\)th inst., a dividend of \(2l\), per share will be declared, as usual. Prince of Wales shares have fluctuated, but close firm, at \(39\)s, to \(40\)s.: Drake Wales shares have fluctuated, but close firm, at 39s, to 40s,: Drake Walls, 14s. to 16s.; Chiverton Moor, 6\frac{1}{4} to 6\frac{3}{4}; South Condurrow, 18s. to 20s.; Mineral Bottom, 2\frac{3}{4} to 3\frac{1}{4}. At Glan Alun the cross-cut towards the Thorntree lode is in most favourable ground for lead, and a great discovery is looked for in a week or two from now; and on the main lode, from one of the discoveries, 50 tons of lead to 63; South Condurrow, At Glan Alun the cross-cut monthly can be easily raised, which will soon be available. Shares are in demand on the Stock Exchange, at 12s. 6d. to 13s. 6d. There are 10,000 shares in this company, 12s. paid, limited to 20s. At Great

Rhosesmor the ground in the cross-cut, north of the 70, driving to cut two main lodes, is favourable for lead; 80 tons, at 117, 18s. 6d., the produce of the month, was sold on Thursday.

At the Swansea Ticketing, on Tuesday, 2159 tons of ore were sold, realising 23,394. 3s. 6d. The particulars of the sale were—Average standard for 9 per cent. produce, 90l. 18s.; average produce, 15\frac{3}{4}; average price per ton, 10l. 16s. 8d.; quantity of fine copper, 340 tons 1 cwt. The following are the particulars of the sales during the past month:—

Date. Tons. Standard. Produce. Priceperton. Perunit. Orecopper. Oct. 20. 2015 ... \$291 17 0... 13\frac{3}{4}... \text{L} \$29 12 1 ... 13\text{L} \$1\frac{1}{4}\text{d}... \text{L} \$29 6 0 Nov.10. 2159 ... 20 18 0... 15\frac{3}{4}... 10 16 8 ... 13 9 ... 68 16 0 Compared with the last sale, which was also the corresponding sale of last month. the decline has been in the standard 11 and in the standard 12 and in the standard 13 and 13 and 13 and 13 and 14 an At the Swansea Ticketing, on Tuesday, 2159 tons of ore were sold,

of last month, the decline has been in the standard 1l., and in the price per ton of ore about 3s.

2l., and in the price per ton of ore about 3s. Compared with t responding sale of last month, the standard is slightly lower. Compared with the cor-

At East Pool Mine meeting, on Nov. 9, the accounts for Aug. and Sept. showed a credit balance of 669l. 16s. 5d. A dividend of 640l. (5l. pcr share) was declared.

The Minera Mining Company declared a dividend of 4l. per share (free of income tax) out of the profits for July, Aug., and Sept., payable on and after Nov. 14.

At the West Caradon Mine meeting, on Tuesday (Mr. Nicholson in the chair), 'the jaccounts showed a debit balance of 23141. A call of 21. per share was made. Details in another column. At the North Wheal Chiverton Mine meeting, on Tuesday (Mr. G.

Noakes, F.G.S., in the chair), a call of 10s. per share was made, payable in two instalments. Details in another column.

The Bank of England return for the week ending on Wednesday evening showed in the ISSUE DEPARTMENT a decrease in the "notes issued" of 193,8201., which is represented by a corresponding decrease in the "coin and bullion" on the other side of the account. In the Banking Department there is shown an increase in the "public deposits" of 493,6441., in the "other deposits" of 697,4646., and in the "rest" of 37831. together, 1,095,0784, and a decrease in the "seven day and other bills" of 48,1371.—1,046.9411., and deducting therefrom \$58,7744. the increase in the "other securities" on the asset side, there remains a total increase in the reserve of 458,1671.

COAL MARKET -The fresh arrivals this week amounted to 131 shins COAL MARKET.—The fresh arrivals this week amounted to 131 ships. The cold weather materially affected the demand for house coals, and nearly the whole quantity has been disposed of, at prices fully 6d. a ton higher than lastweek. Hartleys steady, at previous value. Hetton Wallsend, 19s. 6d.; Haswell Wallsend, 19s. 3d.; Tees Wallsend, 18s. 6d.; Eden Main, 17s.; Harton Wallsend, 16s. 9d.; Hetton Lyons Wallsend, 16s. 9d.; Tunstall Wallsend, 16s. 9d. Unsold, 2 cargoes; 10 ships at

The letters of allotment of the Brazilian Street Railway Company were issued on Thursday. The shares are quoted & to # prem.

MINING NOTABILIA.

[EXTRACTS FROM OUR CORRESPONDENCE.]

NEW WHEAL LOVELL.—The success attending the working of this mine, especially in the eastern ground, has induced Mr. Charles Bawden to obtain setts of the ground adjoining, and on the same productive lodes. Operations will be commenced at once, and there is no doubt in the minds of those well acquainted with the district that the same success will attend him as he so deservedly carned in the former mine.

CHIVERTON VALLEY.—This mine is on the West Chiverton lodes, and adjoins Chiverton Moor to the west; mining authorities who saw the rich lode driven by Chiverton Moor adventurers, right into Chiverton Valley sett, all agree that its chances are excellent, and the fact of it creating 18 months ago great controversy makes it appear; that when the lode is cut, which will be in a few weeks, the shareholders will be rewarded with a good mine.

WHEAL MARY HUTCHINS.—This young mine has sold during the past 12 months 52 tons 16 cwts. 2 qrs. of tin, realising upwards of 3000d., at the shallow depth of 20 fms. from surface; the lode still continues to open out well. They have just commenced slaking the engine-shaft below the 10; the lode is very large, producing very rich stones of tin. There is no doubt of this turning out a rich and profitable mine.

well. They have just commenced sinking the engine-shaft below the 10: the lode is very large, producing very rich stones of tin. There is no doubt of this turning out a rich and profitable mine.

THE CORNISH MINE SHARE MARKET.—Up to the end of last week the activity lately exhibited in the Cornish Mine Share Market was fully maintained, but the present week opened with a diminished enquiry for stock, which has continued up to the present time. In one or two cases prices are slightly lower, but generally speaking the quotations have not been affected by the decrease in the number of transactions. In the absence of important changes in the prospects of any of the mines, and with stationary tin and copper standards, combined with the naturally disturbing political influence of the excitement comment on the approaching elections, it is not surprising that the share market should have assumed a quieter tone, neither is it anticipated that business will be particularly lively this side of Christmas, unless some such specially exciting causes as material alteration in the productiveness of the mines, or in the value of their produce, should occur. It is gratifying to observe that the tin market still maintains its firmness; and, aithough the increasing and apparently inexhaustible supply of foreign copper has most adversely affected our own copper mines of late years, and greatly augmented the depressing effect of the low price of tin since 1885, some encouragement may be gathered from the fact that copper mining is not now the preponderatingly important interest it used to be in our country, the mines producing the metal which has lately exhibited such hopeful boyancy (tin), having gradually become the chief interest of Cornwall. The stock which have received the most attention in the share market since our last impression are—West Frances, which was dealt in during the earlier part of the week as high as 37, now called 35; and a continuance of the present price for in would, doubtless, enable the mine to enter the D

MANUFACTURE OF IRON FROM PYRITES,-Experiments are now MANUFACTURE OF IRON FROM PYRITES.—Experiments are now being made in New York with a view to the production of merchantable iron from pyrites. At a recent meeting of the Lyceum of Natural History, Professor EGGLESTON stated that the furnace employed is similar to an "old Swedish furnace," very much cut away, and steam heat is employed; the material is kept in the lower part of the furnace at a white heat till agglutination takes place; the pasty mass is then skilfully worked and separated into grains, and afterwards withdrawn. He would not prejudge the case, but entertained no great hope of success.

MONT CENIS TUNNEL.-The Italian papers state that the great tunnel through Mont Cenis is making very satisfactory progress. From Oct. 16 to Oct. 31 the distance excavated at the southern end was 28 metres, and at the northern 34 metres, making together 62 metres. The average of the previous fortnights for some time has not exceeded 50 metres. The total length of the tunnel is to be 12,220 metres, and the length already completed is 8938 metres, so that there now remain 3262 metres to excavate. Under any circumstances, it is thought the entire undertaking will be finished by the commencement of 1871.

THE MANUFACTURE OF WATCHES AND CLOCKS.-A most interest-THE MANUFACTURE OF WATCHES AND CLOCKS.—A most interesting and instructive little work, describing briefly, but with great clearness, the rise and progress of watch and clock making, has just been published by Mr. J. W. Benson, of 25, Old Bond-street, 99. Westbourne-grove, and the City Steam Factory, 58 and 69. Ludgate-hill. The book, which is profusely illustrated, gives a full description of the various kinds of watches and clocks, with their prices, and no one should make a purchase without visiting the above establishments or consulting this truly valuable work. By its aid persons residing in any part of the United Kingdom, India, or the Colonies, are enabled to select for themselves the watch best adapted for their use, and have it sent to them with perfect safely. Mr. Benson, who holds the appointment to the Prince of Wales, sends this pamphlet to any address on receipt of two postage stamps, and we cannot two strongly recommend it to the notice of the intending purchaser.

BRAZILIAN STREET RAILWAY (Limited).—The receipts for Sep-mber on the Brazillan street railways amounted to about 10911., and for the me month last year to about 7281., showing an increase of about 3681.

BRIDGEWATER COLLIERIES.—The sinking and fixing of the last lift, or set of pumps, at the Mosley Common Collieries, belonging to the Bridgewater Trust, has been completed. The depth is 1020 feet, and the working of the collieries will give employment to a large number of persons, as there are four or five seams of coal, which will last for many years.

LONDON GENERAL OMNIBUS COMPANY.—The traffic receipts for ne week ending Nov. 8 amounted to 95281, 08, 11d.)

TO LEAD SMELTERS.—WANTED, a WORKING FOREMAN,
THOROUGHLY ACQUAINTED with his BUSINESS, and WILLING to
INDERTAKE the MANAGEMENT of the DESILVERISING DEPARTMENT;
also, TWO FURNACEMEN.
Apply, by letter, to Weston and Collingborn, 18, Peter-street, Bristol.

TO COAL AND IRONMASTERS, ROPE MAKERS, OIL MERCHANTS, AND OTHERS.—A GENTLEMAN of active business habits, and considerable commercial experience, with a first-class connection amongst COLLIERY OWNERS and IRONMASTERS, is open to UNDERTAKE AGENCIES for the SALE of IRON, IRONSTONE, and all kinds of articles used at COLLIERIES and IRONWORKS. Has represented a respectable firm for upwards of 20 years. Highest references and security, if required, Address, "W. F.," Post Office, Burslem.

TO COLLIERY PROPRIETORS, AND OTHERS.—TO BE SOLD, an excellent WIRE CAPSTAN ROPE, made by the eminent firm of GLASS, ELLIOTT, and Co., being 80 fms. long and 1½ in. diameter.

Apply to Mr. Robent Evans, Butterworth Hall, near Rochdale.

A GENTLEMAN, thoroughly conversant with Mining Operations, the Development of Mineral Properties, and the Practical Management of the varied Classes of Workmen connected therewith, DESHKES the GENERAL MANAGEMENT of a COLLIERY or IRON MINES, &c., where an investment of £500 or £600, togother with high-class certified antecedents of ability and energy, moral integrity, and business habits, would be available, and meet with an appreciative remuneration.

Address, with full particulars, "Veritas," care of Mr. G. Vickers, publisher, Angel-court, Strand, London.

A GENTLEMAN connected with Mines, having an Office in the City, is DS-1ROUS of UNDERTAKING the LONDON BUSINESS of a MINING or OTHER COMPANY.
Address, "W. C.," Messrs, King and Co., Old Jewry, E.C.

WANTED IMMEDIATELY, an Experienced ENGINEMAN, for the BOSCASWELL MINES, in ST. JUST. Also, FIFTY TUT-WORKMEN and TRIBUTERS.

Apply to the Agents on the Mine.—10th November, 1868.

WANTED, A SECOND-HAND BLAKE'S CRUSHER, Apply to "J. S.," Box 1, Post Office, Goole, Yorkshire.

BLAKE'S CRUSHER, NEW or SECONDHAND, WANTED; also, a STEAM ENGINE, and all the necessary connections for workin Size, price, and full particulars to be addressed to "Quarryman," MINING JOURNAL Office, 26, Fleet-street, London.

CENERAL MINING COMPANY FOR IRELAND (LIMITED).—Notice is hereby given that the HALF-YEARLY GENERAL MEETING of the shareholders of this company will be HELD at their office, on MONDAY, the 7th of December vext, at the hour of One o'clock P.M., to receive the accounts for the past half-year, and to transact the general business of the company. By order, H. C. FOWLER, Secretary. Office, 29, Westmoreland-street, Dublin, 12th November, 1868.

Office, 29, Westmoreland-street, Dublin, 12th November, 1868.

THE PORT PHILLIP AND COLONIAL GOLD MINING COMPANY (LIMITED).—Notice is bereby given, that an EXTRAOR-DINARY GENERAL MEETING of the shareholders of this company will be HELD at the City Terminus Hotel, Cannon-street, in the City of London, on THURSDAY, the 19th day of November inst., at One o'clock in the atternoon, for the purpose of assenting, or otherwise, to the following resolution, viz.:

"That the conditions and regulations of this company, as contained in the Deed of Settlement of the company, dated the 18th day of February, 1852, the Royal Charter incorporating the company, dated the 18th day of February, 1852, the Royal Charter incorporating the company, dated the 18th day of February, 1852, the Royal Charter incorporating the company, dated the 18th day of August, 1862, and the Supplemental Deed of Settlement of the company, dated the 18th day of January, 1853, shall be and the same are hereby subject to the sanction of the Board of Trade being thereto duly obtained) altered by the insertion therein of the following powers or authorities, which shall be deemed and taken hence forth to be part of the said conditions and regulations, and to override and vary any clause or thing in the said conditions and regulations, and to override and vary any clause or thing in the said conditions and regulations, so as to reduce the nominal capital of the company in such manner, and to such extent, as the company may by such resolution determine; and also by the same or any other special resolution, to appropriate to an amount of the company in such manner, and to such extent, as the company may by such resolution determine; and also by the same or any other special resolution, to appropriate to and among the reduced shares, in such proportion and manner as the company may by such resolution determine, the annual ton, to appropriate to and among the reduced shares, in such proportion and manner as the company may by such resolution determine, the annual

CWM DWYFOR (NORTH WALES) COPPER AND SILVER-LEAD MINES COMPANY (LIMITED), INCORPORATED UNDER THE COMPANIES ACTS, 1862 AND 1867,

Capital £12,500, in 12,500 shares of £1 each,

Fully paid-up on allotment.

DIRECTORS. M. D'ARCY, Esq. (Messrs. D'Arcy and Co.), 227, Gresham House, Old Broad-

street.
E. DE PASS, Esq., 50, Gloucester-terrace, Hyde Park.
J. HOPGOOD, Esq., 15, George-street, Hanover-square, W.
R. M. LAWRANCE, Esq., M.D., 60, Great Cumberland-place, Hyde Park.
THOMAS HARVEY, Esq., Bryn-y-Mor, Merionethshire—MANAGING DIRECTOR.

BANKERS.

METROPOLITAN BANK (LIMITED), LONDON.

SECRETARY-Mr. G. CHAMBERS.

OFFICES.

ST. CLEMENT'S HOUSE, ST. CLEMENT'S LANE, LONDON, E.C.

SECRETARY—Mr. G. CHAMBERIS.

OFFICES.

ST. CLEMENT'S HOUSE, ST. CLEMENT'S LANE, LONDON, E.C.

This company is being formed for the purpose of purchasing and working the valuable copper lodes and other mineral veins in the extensive property of the New Prince of Wales Slate Company, situate in the parish of Llanfihangel-y-Pennant, in the county of Carnarvon. This mineral property possesses advantages of an unusual character, being situated on the slope of a mountain, where the veins can be worked from 200 to 300 yards deep by levels alone. The ore, a yellow sulphuret of copper, is of great richness and purity. A sample assayed by Messrs. Claudet and Co. produced nearly 19 per cent. fine copper, being about five times the average produce of Cornish copper ores. There is also a fine vein of sliver-lead, containing upwards of 60 per cent. of lead, besides sliver, thus, as will be seen, enhancing greatly the value of this unique property. The enduring character of these mineral veins is proved in the adjoining mine, the Drws-y-Coed, the oldest mine in Wales, said to have commenced working in 1600, and which is still yielding a large amount of copper from a great depth below the valley, having been gradually worked down from the top of the mountain. The Cwm Dwyfor is a purely virgin mine in whole ground, from which several hundred tons of fine copper ore have been raised by manual labour alone. The permanent character of this mine is, therefore, placed beyond all doubt.

The copper and lead lodes in Cwm Dwyfor were originally worked by common miners, who realised good profits from their working into the lodes at surface without tunnels, or the expenditure of any capital whatever. If properly worked by levels large returns both of copper and silver-lead can be realised. The advantages of working mineral veins so rich in produce as these, without the drawback of expensive machinery, are very great, and can seldom be obtained in this country. There are at present several tons of copper ore on the mine which have been re

by the shareholders.

Applications for shares, prospectuses, and forms of application, dressed to the secretary, at the offices of the company, where also sthe ores can be seen.

TO RAILWAY COMPANIES AND CONTRACTORS.

THE NORTH LONDON RAILWAY COMPANY have several LOCOMOTIVE ENGINES ON SALE, well suited for CONTRACTORS, or for branch line traffic.

For particulars, apply to the Locomotive Superintendent, at the Company's Engine Works. Bow. E.—October, 1868.

ON SALE, BRIMSTONE MINE, ISLAND OF SABA, WEST INDIES.—A LARGE DEPOSIT of NATIVE SULPHUR, estimated to contain at least ONE MILLION TONS of thirds BRIMSTONE, is OFFERED FOR SALE.—For particulars, apply to—

BRISTOW AND HARTLEY, LIVERPOOL.

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Apply for particulars, to O. J. YOUNGHUSBAND, Esq., Wiehl, Kreis Gummersbach, near Cologne, Prussia.

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BLACK TIN.

Date. Mine. Ts. c. q. lbs. Price p. ton. Amount.

Nov. 12—Mary Hutchings 5 2 3 23 ... 60 5 0 ... £315 6 0—

—West Godolphin. 3 18 2 3 ... 60 5 0 ... 236 11 1 t. Purchasers.

COPPER ORES.

Sampled Oc

| Mines. | Tons | . Pr | oduce | . 1 | rle | e. | Mines. Tons. Produce. Price | |
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| ditto | 92 | | 1634 | 11 | 16 | 6 | ditto 26 34 23 14 | 0 |
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| Knockma | | | 91/4 | | | 6 | Dyliffe 62 536 3 2 | 0 |
| ditto | | | 95/8 | 6 | 10 | 6 | | 0 |
| ditto | 79 | | 934 | 6 | | 6 | Slag 50 21/2 0 14 | 0 |
| ditto | 133 | | 95/8 | 6 | | 0 | Savoy Arg 23 141/2 8 1 | 6 |
| ditto | | | 834 | 5 | | 6 | ditto 23 1334 6 17 | 0 |
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| ditto | | | 9 | | 2 | 0 | Spanish Ore. 8 61/2 9 19 | 0 |
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| | COMPANIES BY WHOM THE ORES WERE PURC | HASE | D:- | - |
| | Names. Tons. | Amo | unt | Ċ. |
| | Copper Miners Company 249 | £1498 | 8 | 6 |
| | Freeman and Co 1381/2 | | | 9 |
| | Grenfell and Sons 135 | | | 0 |
| | Sims, Willyams, and Co 531 | 6411 | 1 | 6 |
| | Vivian and Sons 517 | | | |
| | Williams, Foster, and Co 5061/2 | | | |
| | Ravenhead Copper Company 62 | 1840 | 1 | 0 |
| | Sweetland, Tuttle, and Co 20 | 733 | 0 | 0 |

TOTALS AND AVERAGES.
21 cwts. Produce. Price. Standard.
Whole sale 2159 1534 £10 16 8 £90 18 0

COPPER ORES.

Sampled Oct. 28, and sold at Tabb's Hotel, Redruth, Nov. 12.

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| Grenfell and Sons | | | 11 | 9 |
| Sims, Willyams, and Co | | | 17 | 0 |
| Williams, Foster, and Co | | | 15 | 0 |
| Mason and Elkington | | | | 3 |
| Bankart and Sons | | | 16 | 6 |
| Copper Miners' Company | 9014 | 463 | 14 | 9 |
| Copper Miners' Company | . 53 | 276 | | |
| Wete1 | 1007 | £4079 | 19 | e |

Copper ores for sale at the Royal Hotel, Truro, on Thursday next.—Mines and Parcels.—Devon Great Consols 1983—Marke Valley 499—Crelake 219—Bedford United 190—East Caradon 190—West Marla and Fortesene 175—Prince of Wales 123—Wheal Friendship 118—Gunnislake (Clitters) 75—Kelly Bray 66—Cawsand Valr 65—Wheal Crebor 63—East Russell 41—Belstone 37—Caradon Consols 31—Old Gunnislake 25—Devon and Cornwall 25—Collacombe 12—Total, 3637 tons. Copper ores for sale at Tabb's Hotel, Redruth, on Thursday week.—Mines and Parcels.—Clifford Amalgamated 602—South Caradon 541—Glasgow Caradon 300—Podice Mines 294—Phoentx Mines 205—Wheal Rose 184—North Treskerby 157—Craddock Moor 101—West Caradon 92—Tresavean 70—West's Ore 64—Treffry's Regulus 44—Old Pembroke 3.—Total, 2387 tons.

▲ LARGE AMOUNT of MONEY being EXPENDED in ADVERTISING in WORTHLESS PUBLICATIONS, C. H. MAY will be HAPPY to AFFORD INFORMATION to ADVERTISERS in the SELECTION of the BEST and MOST INFLUENTIAL.

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THESE SIGNALS supply a want long felt in giving INSTANT COMMUNICATION in MINES at SEVERAL PLACES at the SAME TIME without the aid of electricity, but by a single rod or chain; so that a degree of safety is ensured hitherto unknown.

The price is also very low, and the mechanism so simple that any ordinary mechanic could put it in order if out of adjustment.

The same patent, as applied to ships, has received the approval of the Chief Engineer, Chatham Dockyard (vide Times, Aug. 13, 1868).

MR. GEORGE B. JERRAM, ENGINEER, 5. GREAT QUEEN STREET, N.B.—Mr. JERRAM is now visiting the different mines with working models.

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Address MESSRS. NICHOLLS, MATHEWS, AND CO., TAVISTOCK FOUNDRY, TAVISTOCK.

Notices to Cornespondents.

Besseme Iron.—The argument of Messrs, Hinde, in their paper on "New System of Iron and Steel Making," No. VI., published in last week's Journal, that the use of nitrate of soda to supply gaseous matter to the moiten pig is merely a costly equivalent of the Bessemer process of foreing atmospheric air through the metal, is not sound. The nitrate of soda would give up its nitrogen in a manner very different to the atmospheric air, and might result in a combination of the nitrogen with the carbon of the iron, and the consequent formation of cyanogen, which has been declared by Binks, Sanderson, and other-steel makers to be an important compound in connection with the manufacture of steel. The sodium, too, would also exercise an influence upon the iron, though whether for good or for evil I will leave Messrs. Hinde to determine.—CYANOGEN.

iron, though whether for good or for evil I will leave Messrs. Hinde to determine.—CYANOGEN.

SAFETY-LAMPS.—It is frequently stated in the Journal that it is highly desirable that no safety-lamp should be given to a coilier which can be opened without extinguishing the light, yet easily-opened locks, and often lamps without any locks whatever, continue to be used. I suppose this arises in most instances from locked lamps costing more, and entailing more work on the lampnan. If this be so, will you permit me to ask whether the lamp described some years ago as the invention of Mr. C. H. Waring, of Neath Abbey, is open to those objections? It seemed to me at the time that the simplicity and efficiency of Mr. Waring's lamp could scarcely be surpassed. The fact of its having no lock would positively lessen the lampman's trouble, and as the spring by which the lamp is kept closed cannot possibly be reached until the extinguisher is tighly over the wickholder (by which, of course, the light must be extinguished), it appears to me that absolute safety must attend its use. Can any of your readers inform me whether any maker is at present a tempting to introduce this description, and his price for Day's, Geordles, and glass-sided lamps with this class of fastening?—SAFETY.

UTILISATION OF SMALL COAL.—It was stated some time since in the Journal that Mr. D. Barker's invention for utilising small coal by converting it into compressed fuel was to be extensively applied in the Forest of Dean. Can any of your readers inform us whether the works in that district are yet completed, and also whether Mr. Barker's invention is applicable to the non-hituminous as well as to the biduminous qualities of coal? I presume he is still using the farinaceous compound and carbolic acid.—F. H.: Dieppe.

DYNAMTE—BORING MACHINES.—If your correspondent who enquires where Dynamite is to be had, and about the Mont Cen's Boring Machine, will favour

DYNAMITE—BORING MACHINES.—If your correspondent who enquires where Dynamite is to be had, and about the Mont Cenis Boring Machine, will favour us with his address, we shall be happy to give him every information.—Messrs. Webb and Co.: Carnaron.

WEBB and CO.: Carnareon.

CALDBECK FELLS LEAD AND COPPER MINING COMPANY.—With reference to the letter signed "A Shareholder," which appeared in last week's Journal under "Notices to Correspondents," I take the earliest opportunity to give an unqualified denial to the assertions there set forth, and beg to say there are no grounds whatever for any part of the statement.—J. Lainton, Secretary.

EARTHQUAKES,—The letter from "J. B.," (Ramsgate) shall appear next week. Rec ived,-" A Chontales Shareholder "-" A Practical Miner "-" Maga ".
" D. M."-" Curator"-" F. C. H."-Walter Smart.

THE MINING JOURNAL, Bailway and Commercial Gazette.

LONDON, NOVEMBER 14, 1868.

ECONOMY OF FUEL IN THE MAKING OF IRON.

The question of all others the most importants o Great Britain is, not The question of all others the most important o Great Britain is, not whether Mr. GLADSTONE shall be Premier, or whether Mr. DISRAELI shall occupy the first place, but by what means we can most effectually husband our fuel resources. Mr. MILL never spoke more practical philosophy than when he said that provision should be made for the paying off of our National Debt within the period during which our supplies of coal would remain unexhausted. In the Mining Journal of Oct. of Oct. 24 we drew attention to the probable exhaustion of our coal fields, as sketched by Prof. JEVONS, in the papers read by him a few days before at Newcastle; and whilst we said that, taking the world as a whole, we might consider the stores of coal practically inexhaustible, still that could hardly be said of our own stores in particular. No men know this better than those who are engaged in the practical work of winning coal. Meaning the results are engaged in the practical work of winning coal. work of winning coal. Happily, whilst we are increasing the quantity we bring up in a rapid ratio—a ratio so rapid that, as we showed in the article already mentioned, the quantity of coal worked yearly in the article already mentioned, the quantity of coal worked yearly from British mines has been nearly trebled during the past 20 years, and has probably increased tenfold since the commencement of the present century—we are increasing in our ability to use a class of fuel which was at one time thought incapable of use for many purposes to which it is now successfully applied. It may, therefore, be concluded that we possess a larger store of mineral combustibles than many persons who estimated our resources from their supposed value, only a few years back, are disposed to admit. Nevertheless, there is the most urgent need for economy, even with all our modern knowledge of the means of making that a source of profit which at one time was thought worthless. was thought worthless.

was thought worthless.

It is well known that in no department of manufacture is there a larger consumption of fuel than in the production of our iron. If, therefore, we can save in that process, we shall be doing much to economise our resources. From time to time we have drawn attention to the means of reducing the fuel cost of iron manufacture, which have been adopted alike by the makers of pig-iron and by the proprietors of mills and forges. The Wilson puddling-furnace, it has been seen, effects a saving of from 20 to 25 per cent, in that process; and if the efforts referred to in these columns for the process. and if the efforts referred to in these columns a fortnight ago, as about to be made in South Staffordshire, with a view of utilising slack coal in the working of the puddling and mill furnace, should be successful, then another source of economy in the mills and forges,

will exist. As to our pig-iron manufacture, the French ironmasters were the first to teach us how to use our waste gases. Mr. MORRISON, a few years afterwards, adopted the method at the Ferry Hill Furnaces, in Durham. But neither Mr. MORRISON, nor the men who in Britain the position which she now occupies as an iron-smelting country, in comparison with her continental rivals, have stopped there. Perfecting a British invention, they have heated their blast to a point which foreigners had not deemed possible, and they have caused their furnaces to attain an altitude which, by comparison, has described to a local training in the properties when receiving the furnaces. caused their furnaces to attain an altitude which, by comparison, has dwarfed to almost insignificant proportions the majority of furnaces used throughout most of the iron-making districts of continental Europe. By these means together, the British ironmasters have succeeded, in something like 15 or 16 years, in reducing the consumption of coke per ton of iron to about one-half what it was before that time. But they have not ceased their saving efforts, nor do these figures show the saving that they will ultimately effect.

The most recent exposition of what is being done to economise fuel in the manufacture of pig-iron was made on the 5th inst., in Birmingham, as narrated in another article. Unfortunately, the rules of the association under whose auspices the information was brought out prevent a more detailed account than is there given. We hope that Mr. Cocheane's paper will be published in a separate

brought out prevent a more detailed account than is there given. We hope that Mr. COCHRANE's paper will be published in a separate form for the perusal of the trade, and that he will not fail to give us the result of further experiments. To the necessarily brief outline of the paper, and the discussion upon it which we give, we will state here that by the use of his new apparatus Mr. COCHRANE effects a saving of from 150% to 160%. a year, at an original outlay of 200%. The height of his larger furnace, with its capacity of about 20,000 cubic feet, is 75 ft., which is 40 ft. higher than than that of the smaller furnace, with the internal capacity of 7000 cubic feet. By this extra height he has been enabled to do with 26½ cwts. of coke what before took 30 cwts.; and he estimates that with a furnace 113 ft. high 1 ton of iron may be produced in the Cleveland district at a cost of 7½ cwts. of coke. If this amount of fuel should be somewhat under the quantity which actual experiments will show is necessary, still we have no doubt whatever that, with an increased height, and greater cubical capacity, a much larger economy will be necessary, still we have no doubt whatever that, with an increased height, and greater cubical capacity, a much larger economy will be effected than has yet been found practicable in the Cleveland district. Of this the Cleveland masters seem themselves to be convinced, for in that district furnaces are at this moment in course of erection which are intended to be 120 ft. high. In the Cleveland district the ore produces some 40 per cent. of iron. If from such material 1 ton of iron can be got at the cost of even 10 cwts. of coke, the ironmasters there, when they have shown this to be possible, will have done great service, not only to the iron trade of this country, but to the whole nation. but to the whole nation

but to the whole nation.

What is being done in the North of England is equally encouraging. We said that Mr. Morrison was the first ironmaster in this country who adopted the French invention of economising the waste gases, and that the British ironmaster had immensely increased the original value of his own system of heating the blast. We believe that even at the present time Mr. Morrison is working furnaces 105 ft. high, about 26 ft. across the boshes, and is producing 1 ton of iron at a cost of 16 gwts. of coke. But whilst the Cleveland stone contains only 40 per cent. of iron, that of Durham is very much richer, and Mr. Morrison has got his cast-iron calcining stoves up to so great a degree of perfection that he is working his furnaces at the great uniform heat of—if we are not mistaken—1100°.

We have felt the utmost satisfaction in thus drawing attention to what the ironmasters in this country are doing to nusband our resources; they are taking a foremost part in the solving of the great

sources; they are taking a foremost part in the solving of the great commercial problem which comes up in every consideration as to the future of this kingdom.

NORTH OF ENGLAND INSTITUTE OF MINING ENGINEERS.

The value of practical experience, combined with scientific know-ledge, was, probably, never more completely and satisfactorily demonledge, was, probably, never more completely and satisfactorily demonstrated than by the address of Mr. GEORGE ELLIOT, the newly-elected President of the North of England Institute of Mining Engineers, which is fully referred to in another column. From the humble position of a pit boy Mr. ELLIOT has succeeded by continued energy and perseverance in attaining a position in the engineering profession second only to that of President of the Institution of Civil Engineering the property of the high strength of the property of the high strength in the high streng sion second only to that of President of the Institution of Civil Engineers; whilst as an evidence of the high esteem which he enjoys apart from his profession, it will suffice to mention that he is the Conservative candidate for North Durham, and has every prospect of success. The address here alluded to contains a mass of information and suggestions which would do credit to the most competent of the Presidents of the British Association for the Advancement of Science, and the results to be anticipated from it will certainly not be less, seeing that the facts and propositions are put forward by an undoubted authority, and offered for the consideration of those who can well appreciate them. All the principal questions which it is desirable should form subjects of discussion amongst mining engineers are also in turn referred to, and in a manner that suggests a mode in which they might be conveniently handled. Mr. ELLIOT's views are decided, and sometimes startling, but as he declares that he is prepared to stake his professional reputation upon their accuracy, it is but fair to believe that the statements have not been made without due deliberation, and careful study of the points involved.

fair to believe that the statements have not been made without due deliberation, and careful study of the points involved.

Mechanical ventilation, as compared with ventilation by the furnace, has decidedly Mr. ELLIOT'S recommendation, whilst the alarm which has been raised as to the approaching exhaustion of our coal supply he evidently regards as unjustifiable. No approximate estimate can, in his opinion, be formed as to the extent of coal yet unworked. That lying under the Permian and New Red Sandstone has been comparatively untouched; and according to his estimate, "but a very small percentage of our coal has been brought to the surface during the hundreds of years we have been at work. In some disduring the hundreds of years we have been at work. In some districts, notably in South Wales, scarcely more than 1 per cent. has been moved. If, therefore, we add the coal under the bed of the ocean been moved. If, therefore, we add the coal under the bed of the ocean to that already at our disposal by known means we find a supply which is more than sufficient to allay the alarming fears which have been expressed." As to the under-sea coal, Mr. ELLIOT does not anticipate any difficulty in working it; but, on the contrary, observes that the fields to be worked below the sea, on our east and west coasts, especially in the counties of Durham, Northumberland, and Cumberland are in themselves enormous, and will be for all practical berland, are in themselves enormous, and will be, for all practical purposes, as entirely within the reach of the mining engineer as the ordinary workings out of which coal is hewn. Geology indicates that in many districts the coal strata extend seaward 10 or 12 miles beyond the shore; and it his firm belief that, by sinking ventilating shafts in the German Ocean, the coal below it might be worked as

safely and certainly as it is beneath where he was then standing The comparative merits of the various modes of working coal was another subject referred to as worthy of being fully discussed by the members of the institution, Mr. ELLIOT reminding them that they must have the courage and energy to adopt improvements, lest their fame should be tarnished and their laurels dimmed, merely because they had stood still while the world around them had advanced. The subject of devising a means for superseding the use of gunpowder in mines is one which opens a large field for inventors, more especially as there can be no question that any really practicable invention would be readily adopted. Mr. ELLIOT's remarks as to the best mode would be readily adopted. Mr. LLLIUT'S remarks as to the best mode of working coal, and his observations upon the increase of tempera-ture in mines, are particularly interesting; whilst his suggestions for uniting the whole of the mining engineers in the country into one community cannot fail to be productive of good results. The feeling generally entertained, both towards Mr. ELLIOT and with regard to his address, was admirably stated by Mr. J. MORRISON, when he observed that he had listened in his lifetime to many addresses, but he had never listened to one more fruitful, from beginning to end, with that which was instructive, with that which was suggestive, and with that which was instructive, with that which was suggestive, and with that which was calculated to lead our minds into the right channel of thought and feeling; and there was not a single gentleman who attended that meeting that day who did not rise from his place, after hearing that address, feeling that he was proud, very proud, of "the pit-boy," as the President was pleased to call himself, who had risen from the pit-boy to be a man in the full stature of his nature, and who might stand and say to the world that he was a man. He ex-

pressed the feeling of every one of them when he said that their worthy President delivered himself in a manner worthy of the great institu-tion over which he presided, and worthy of a genius that had pro-duced some of the most celebrated men of the age: and he said, withduced some of the most celebrated men of the age: and he said, without any flattery whatever, that amongst those celebrities was the worthy and esteemed President of that institution. He hoped they would pardon him, but he was himself, like Mr. Elliot, a self-made and self-educated man, and his heart felt a kindred feeling, therefore, and warmed towards Mr. Elliot; and he hoped Mr. Elliot's example would actuate, and teach, and guide others. As the exponent of the feelings of Newcastle, he repeated that Newcastle would be proud of the speech which Mr. Elliot had delivered that day, and proud of the son of the North who had delivered it. the son of the North who had delivered it.

INSTITUTION OF CIVIL ENGINEERS.

INSTITUTION OF CIVIL ENGINEERS.

The Council of this Institution have just issued their list of subjects for which premiums are offered for 1868-69. The principles upon which the awards are made are extremely liberal. The Council do not bind themselves to award any premium should the communication not be of adequate merit, but they will award more than one premium should there be several communications upon the set us ject deserving of that distinction. But this is not all. Althout from the high position of the institution the greatest honour attactes to those who are successful in obtaining its premiums, the absolute merit of the communications is alone considered, it being a distinct condition that in making the award "no distinction will be made whether the communication has been received from a member or an associate of the institution, or from any other person, whether a native or a foreigner." Many of the subjects upon which the Council invite communications are of peculiar interest to the readers of the Mining Journal, and it is much to be hoped that the premiums offered will cause increased attention to be directed to them. At the present time, when much importance is attached to the establishment of closer railway connection between London and the Continent, and whilst rival projectors are disputing with regard to the relative advented to the subject of the subject of the readers of the relative advented to the subject of the relative advented to the subject of the relative advented to the subject of the relative advented to the readers of the relative advented to the readers of the relative advented to the readers of the readers of the relative advented to the readers of the re whilst rival projectors are disputing with regard to the relative advantages of bridges and tunnels between the English and French coasts, a communication "On Railway Ferries, or the Transmission coasts, a communication "On Kallway Ferries, or the Transmission of Railway Trains entire across Rivers, Estuaries," &c., might not only furnish a practical solution of the question, but might offer enormous facilities to an inventor (by securing him the recognition of so influential a body as the Institution of Civil Engineers) seeking the influential a body as the Institution of Civil Engineers) seeking the assistance of capitalists to enable him to give his discovery a practical form. Another subject, which appears to be especially calculated to call forth the energies of mining engineers, is—"Description of a Modern English Locomotive Engine, designed with a view to cheapness of construction, durability, and facility of repair." Such an engine is precisely that which is required for our vast mineral traffic, and is one, moreover, which would, doubtless, take such a form as would admit of its being constructed of reduced size, so as to adapt it not only for the surrace works at collieries, but with triding form as would admit of its being constructed of reduced size, so as to adapt it not only for the surrace works at collieries, but with triffing modifications, to underground haulage also. "On the Construction of Catch-water Reservoirs in Mountain Districts, for the Supply of Towns, for Irrigation, or for Manufacturing Purposes," is likewise worthy of their consideration. The districts in which mining operations are carried on are frequently mountainous, or at least sufficiently so to permit of a large amount of motive power being obtained from this source; and there can scarcely be a question that an engineer who could so far satisfy the Institution of Civil Engineers of the merits of his plans as to secure the award of a premium, would thenceforward find ample professional practice from that source alone to keep him fully employed. A paper "On the Safe Working Strength of Iron and Steel, including the Results of Experiments on the Elastic Limit of Long Bars of Iron, and on the Rate of Decay by Rusting, &c., and under Prolonged Strains," would doubtless be of considerable value to the mining branch of the profession, whilst it is a subject upon which the members of that branch could certainly furnish a vast amount of valuable information.

But it is not alone for communications upon such subjects as these, which some may regard as only indirectly connected with the mining interest that the Institutions of Civil Engineers of for their receiver.

which some may regard as only indirectly connected with the mining interest, that the Institution of Civil Engineers offer their premiums; there are some which are so immediately connected with both mining there are some which are so immediately connected with both mining and metallurgy that mining engineers and metallurgists would possess undoubted advantages in competing for them. On Coal Mining in Deep Workings, including Machinery for dispensing with Gunpowder in getting Coal; On the Present Systems of Smelting Iron Ores; On the Conversion of Cast-Iron into the Malleable State, and of the Manufacture of Iron generally, comprising the distribution and arrangement of Iron Works; On Machinery for Rolling heavy Rails, Shafts, and Bars of large sectional area, and for Forging heavy masses of metal; On Steel, and its present position as regards production and application; and On Machinery for Washing Lead Ores, are each of this class, and should, therefore, receive the immediate attention of the classes mentioned, as both pleasure and advantage would assuredly be the result.

The following is the list of awards made by the Council for papers

would assuredly be the result.

The following is the list of awards made by the Council for papers contributed during last session:—

A Telpord Medal, and a Telpord Premium, in books, to George Higgs, M. Inst. C.E., for his paper "irritation in Spain, chiefly in reference to the Construction of the Henares and the Esla Canals in that country."

A Telpord Medal, and a Telpord Premium, in books, to CHRISTER PETER SANDBERG, Assoc. Inst. C.E., for his paper "On the Manufacture and Wear of Ralls."

Ralls."

A TELFORD Medal, and a TELFORD Premium, in books, to Lieut.-Col. PETER
PTERGE LYONS O'CONNELL, R.E., Assoc. Inst. C.E., for his paper "On the Relation of the Fresh Water Floods of Rivers to the Areas and Physical Features of
their Beating."

their Basins."

A Telford Medal, and a Telford Premium, in books, to William Wilson, M. Inst. C.E., for his "Description of the Victoria Bridge, on the line of the Victoria Station and Pimlico Railway."

A Telford Medal, and a Telford Premium, in books, to Charles Douglas Fox, M. Inst. C.E., for his paper "On New Railways at Battersea; with the Widening of the Victoria Bridge and Approaches to the Victoria Station."

A Telford Medal, and a Telford Premium, in books, to John Wolfs Barry, M. Inst. C.E., for his paper "On the City Terminus Extension of the Charing-cross Railway."

BARRY, M. Inst. C.E., for his paper "On the City Terminus Extension of the Charing-cross Railway."

A WATT Medal to EDWIN CLARK, M. Inst. C. E., * for his paper "On Engineering Philosophy: the Durability of Materials.

A TELFORD Medal to WILLIAM JARVIS MCALPINE, M. Inst. C. E., for his paper "On the Supporting Power of Piles; and on the Pneumatic Process for sliking from Columns, as practised in America."

A TELFORD Premium, in books, to THOMAS LOGIN, M. Inst. C. E., for his paper "On the Benefits of Irrigation in India; and on the Proper Construction of Irrigating Canals."

"On the Benefits of Irrigation in India; and on the Proper Course acceptance and a gating Canals."

A TELFORD Premium, in books, to Allan Wilson, M. Inst. C.E., for als paper "On Irrigation in India."

A TELFORD Premium, in books, to Wilfrid Airy, Assoc. Inst. for his paper "On the Experimental Determination of the Strains on the Suspension Ties of a Bowstring Girder."

The MANNY Premium, in books, to Andrew Cassels Howden, Assoc. Inst. C.E., for his paper "On Floods in the Nerbudda Valley; with Remarks on Monsoon Floods in India generally."

* Has previously received a Telford Medal.

MODERN BLAST-FURNACES.

A subject of great interest to the iron trade of this country was ably discussed at the meeting of the Mechanical Engineers in Birmingham, which was attended by an unusually large number of ironmasters. The author of the paper was Mr. CHARLES COCHRANE, and its subject "The Further Utilisation of the Waste Gases from Blast-Furnaces, and the Saving of Fuel by Increased Capacity of Furnace," of which we give an official summary in another column. An animated discussion ensued, in which Messrs. SIEMENS, GEO. ADDENBROOKE, SAMPSON LLOYD, SAMUEL LLOYD, MARTEN, and COOPER took part. Mr. SIEMENS considered that Mr. COCHRANE had rather over-estimated the regenerating power of the descending materials in the upper portion of the large furnace, and that in the more extended operations to which Mr. Cochrane had alluded it would be found that the saving

from this source would not be at so high a ratio as he had calculated.

Mr. ADDENBROOKE stated that a furnace was now working in York-AIT. ADDENBROOKE stated that a furnace was now working in Yorkshire on the open-topped plan, which he advocated, and he understood that it was doing very well. The open-topped plan, of course, would render such machinery as Mr. Cochranze had described of no value. With regard to the yield also of the larger furnace, he was surprised that the consumption of fuel was not smaller, as in furnaces in the South Staffordshire district, with the yields of which he was well acquainted, he could say a result was heing obtained by was well acquainted, he could say a result was being obtained by which 1 ton of iron was being produced with nearly as few hundred

weights of raw coal as in the North they were taking the finest Dur-ham coke to effect, and when the actual weight of carbon which was charged into the furnace per ton of iron was taken into account, the yield was very much to the advantage of South Staffordshire. It was true that the ironstones of South Staffordshire were somewhat was true that the Pronstones of South Stanfordshire were somewhat richer than those of the North, and, perhaps, more easily fused, but he did not consider that there was a sufficient difference in these particulars to account for the superior carbonaceous yield of South Stanfordshire. He stated also that quality in the South, and not quantity, was the great consideration, and asked a question, which did not appear to have been heard by Mr. COCHRANE, as to what improves

appear to have been heard by Mr. COCHRANE, as to what improvement in quality took place from the large furnace. He was a great advocate of extending both the capacity and weight of furnaces. Mr. MARTEN elicited from Mr. COCHRANE the expression of an opinion that, owing to the friable nature of the South Staffordshire coal, furnaces in that district could not be advantageously erected more than 50 feet high, not because the crushing weight of the incumbent mass would be too great for the coal, but he feared the fuel would not stand the grinding motion. Mr. MARTEN said that although it was a formidable matter to differ from Mr. SIEMENS, yet he must say that he did notagree with the arguments of that gentlethough it was a formidable matter to differ from Mr. SIEMENS, yet he must say that he did not agree with the arguments of that gentlerand on the present occasion. Mr. SIEMENS appeared to him to have on a ratio of regenerating influence for the upper portion of the furnace limited to identical filling, whereas the filling was not identical in the large furnace, the fuel being much less in proportion to the whole materials charged than in the smaller furnace, and hence with every increment of furnace the regenerative influence would be in proportion to the larger quantity of absorbing materials charged, whilst the caloric to be absorbed would be diminished by the less proportion of fuel charged; and hence that, in his opinion, the charged, whilst the caloric to be absorbed would be diminished by the less proportion of fuel charged; and hence that, in his opinion, the action and reaction introduced by these circumstances would produce results rather more favourable than Mr. COCHRANE's calculations. Mr. MARTEN concluded by observing that although he was very loth to make use of an expression which might be misunderstood, yet he considered that the future construction of large furnaces would go in the direction of increase of "bosh."

naces would go in the direction of increase of "bosh."

After a few words from Mr. Bramwell, who presided, a very cordial tote of thanks was passed to Mr. Cochrane, who was asked by the Chairman to favour the association by communicating the result of the erection of larger furnaces in the Cleveland district.

It should be noted that the reason why furnaces of large capacity are more economical than those of smaller dimensions was made known, we believe, for the first time in this paper. They are not stated in the official synopsis of the paper, but Mr. Cochrane explained that his experiments had shown that they were to be traced chiefly to the regenerative influence of the larger quantity of matechiefly to the regenerative influence of the larger quantity of materials in the upper portion of the large furnace. We had all known that the large were more economising than the smaller, but why they were so not even the men whose experiments had led to the preference were, we imagine, aware.

HEATON'S PATENT PROCESS FOR THE CONVERSION INTO STEEL HEATON'S PATENT PROCESS FOR THE CONVERSION INTO STEEL OR IRON OF INFERIOR ORE.—In the article which appeared in the Journal of last Saturday, on this process, the following concluding paragraph of the report of Prof. MILLER was by accident omitted:—
"In conclusion, I have no hesitation in stating that HEATON's process is based upon correct chemical principles: the mode of attaining the result is both simple and rapid. The nitric acid of the nitrate in this operation imparts oxygen to the impurities always present in cast-iron, converting them into compounds which combine with the sodium; and these are removed with the sodium in the slag. This action of the sodium is one of the peculiar features of the process, and gives it an advantage over the oxidising methods in common use."

CANADIAN TITANIFEROUS IRON.—It will be remembered that at the recent Paris Exhibition honourable mention was awarded for spethe recent Paris Exhibition holourable mention was awarded for specimens of the Moisic (Nova Scotia) iron, yet it is probably not generally known that so high is the quality of this brand that in strength it positively surpasses by nearly 5 per cent, the justly celebrated Low Moor iron. Its capacity for elongation is 7½ in, in 10 ft., so that it would seem to be admirably adapted for drawing into wire. The analysis of Mr. Poinsat, a well-known French chemist, shows the ore from which it is manufactured to contain—magnetic oxide of iron, 51.12. protoxide of iron, 53.12. protoxide of i per cent. The Moisic iron 34-60; titanic acid, 11-27; and silica, 3-01 per cent. The Moisic iron is a good description for boilers and iron shipbuilding, and, judging from the experiments which have been made with it, it is altogether a very superior quality of metal. With regard to the facility for obtaining a permanent supply of the iron, Dr. Sterry Hunt writes that the bed of magnetic ore at the Moisic is of improved that the readily accessible, and as for as can be indeed. of immense extent, readily accessible, and, as far as can be judged, of very excellent quality.

STREET TRAMWAYS.—The local authorities of Chicago, U.S., have agreed to permit Mr. Z. EASTMAN, whose system of street tramways was described in the *Mining Journal* of Feb. 1, to lay his tramway in one of the principal thoroughfares in that city. The advantages claimed for the system are that it does not interfere with the ordinary traffic, and rather improves than damages the road.

THE COAL TRADE OF NOVA SCOTIA.—It is gratifying to find that the immense extent of the mineral resources of this province become more and more apparent as their development is proceeded with. The opening of the Drummond Colliery, belonging to the Intercolonial Company, affords an instance of this, the colliery works having fully confirmed the opinion of scientific men, that the seam is an extension of that so profitably worked at the celebrated Albion Mines, the Drummond Colliery seam possessing the additional advantage that, although somewhat diminished in thickness, it is of greatly improved quality. But it must not be supposed that the diminution has reduced the seam to an unimportant size; the Drummond seam has still a vertical thickness. ness of 16 feet of good coal, and concerning it Dr. Dawson expresses the very satisfactory opinion that if, as appears probable, it is continuous nearly across the area, it presents one of the finest mining properties in that or any other country. The colliery is furnished with an excellent plant, and the surface machinery and general arrangements are all that could be desired.

CALORIC ENGINES.—Since the opinion that the heat of the sun may be utilised in the production of motive power has been gaining ground, several inventors have turned their attention to the construction of improved hot-air engines, it being generally considered that ground, so fimproved hot-air engines, it being generally considered may from this description of engine that the most successful results from this source are to be anticipated. Mr. H. D. Waller, jun., of Fort Columbus, New York City, is one of the latest inventors in this direction, and he claims that he has succeeded in providing a hot-air engine which will work with better results than those horetofore made. The general features of the inventor consist in the employment of two parallel cylinders, each cylinder being provided with air-heating chambers at each end. The cylinders communicate with each other through suitable ports opening from the heating chamber of one cylinder into the adjacent heating chamber of the other, and these ports are provided with valves, the timely operation of which is accomplished by suitable valve gear. The pistons are made by means of any suitable "lost motion" devices to move and rest alternately; one piston being at rest either at the top or bottom of the stroke, while the other piston is making the stroke towards the resting piston. This action allows time for the air to be received into and heated in the air chambers at either end of the cylinders, which is a prominent feature of the invention. Another advantageous feature is obtained in the utilisation of the second or auxiliary cylinder, whereby the expanded air of the first cylinder escapes into the second heating chamber, and by its pressure assists to actuate the second piston to make its stroke whilst the first piston is resting.

EXTRACTION OF COPPER FROM THE ORE.—The extraction of copper EXTRACTION OF COPPER FROM THE ORE.—The extraction of copper by the wet way is being successfully carried on in Nevada by Mr. JOHN RAMDOHR, who has introduced some important modifications in the process. The ore having been first dry crushed to a fine powder is placed in a large tank, and subjected to the action of dilute sulphulic acid, heat being applied to the bottom of the tank (which stands upon a furnace) to hasten the process of dissolving the copper contained in the ore. When dissolve the solution is drawn off into a large filtering tank, and from this is conducted into a precipitating tank. In case it is intended to manufacture bluestone from the solution, it is conducted to the evaporating pans, and thence, after being sufficiently reduced, is placed in pans lined with lead for crystallisation, and it is then ready for saie. For the production of metallic copper the process is precisely the same as for the making of bluestone, up to the point of running the solution from the filter. To obtain metallic copper the solution is conducted from the filter to a large precipitating tank, where it is precipitating to opper in fine grains. The metallic iron used in precipitating the copper contained in the solution is obtained from the ore itself. The crushed ore, which contains a considerable percentage of iron, its taken just as it comes from the batteries, and having been mixed with a quantity of pulverised charcoal is placed in iron tubes or cylinders, and kept for a length of time at a certain heat, by which time the

iron is annealed and becomes metallic, and then is ready to be used in the precipitation of the copper obtained in solution by the first process. This iron powder acts almost instantaneously, and all the copper in a tank of the solution, no matter how large the tank, may be precipitated in less than an hour. After the copper has been precipitated there remains in the solution sulphate of iron (green vitriol), and this is evaporated and crystallised in the usual way, when it is used for the manufacture of sulphuric acid, to be again employed in the process of dissolving the ore in the first operation. After the distillation of the sulphate of iron for the production of sulphuric acid, there remains behind in the retorts used a substance called colcothar—a red oxide of iron, sometimes used as a pigment and for polishing glass. Thus it will be seen that the ore is made to furnish the materials by which it is worked; the only loss is about 10 per cent, of sulphuric acid. From the facility with which iron ore could be mixed with that of copper when an insufficient quantity of iron is contained in the ore, would appear to indicate that the process is well worthy of a trial in Great Britain.

MINING, METALS, AND MINERALS-PATENT MATTERS.

BY MICHAEL HENRY, Patent Agent and Adviser, Memb. Soc. Arts, Assoc. Soc. Eng.

Mr. HENRY BESSEMER, of Queen-street-place, Cannon-street, the Mr. HENRY BESSEMER, of Queen-street-place, Cannon-street, the celebrated engineer, has specified a patent, relating to the manufacture of refined iron and of malleable iron and steel, the art in which he has already introduced so many improvements. This invention consists in forcing or injecting into molten crude iron or remelted pig-iron, or other carburet of iron in a more or less refined state, streams or jets of fused or fluid nitrate of soda or nitrate of potash, or other fused or fluid substances, which contain, or are capable of evolving, oxygen when brought in contact with fluid iron, such substances being used alone or in conjunction with oxides, peroxides, or silicates of the peroxides of iron or manganese. The streams or jets of fused or fluid matters are projected downwards, at any deor jets of fused or fluid matters are projected downwards, at any de-sired angle from nozzles or tuyeres, the orifices of which are situated above the mean level or upper surface of the fluid iron to be operated upon, a portion of the said fused or fluid matters, as well as a portion of the cinder or oxides produced in the process, being again carried down into the molten metal as an induced current, caused by the pasany fluid matters floating on the surface, and penetrate the fluid metal, and be there more or less decomposed, and operate upon the metal and the impurities contained therein, and will more or less decomposed and operate upon the metal and the impurities contained therein, and will more or less decarbonise and refine the iron, and convert it into steel or into maleable iron, or into a more or less refined cast-iron, dependent on the quantity and constituents of the fixed or fluid matters ejected therein.

quantity and constituents of the fused or fluid matters ejected therein.

Mr. HUGH KENNEDY, of New Orleans, has obtained Letters Patent for an invention for a machine for cutting files. It appears from the specification that this invention relates to a machine wherein the file-blank is supported below a vibrating cutter, which, by a succession of blows, forms the teeth from end to end of the said blank, either the cutter or the blank being equest to travel in the prepared invention. the cutter or the blank being caused to travel in the proper direction, to cause the teeth to be cut regularly from end to end of the same. The nature of the invention consists chiefly in regulating, controlling, and varying the movements of either the cutter or the file-blank, so that the teeth cut in the latter are not exactly parallel with each other; also in the peculiar construction and arrangement of the mechanism for supporting and adjusting the file-blanks; in the novel formation of the cutter, and in the mode of and means for operating normation of the cutter, and in the mode of and means for operating and adjusting the same.

Messrs. J. C. Coombe and John Poole have obtained provisional

protection for a joint invention, relating to coating iron, steel, and such like surfaces, and protecting and preserving them from the corrosive action of sea or salt water, and the oxidising influences of damp air, wet, and moisture. This invention consists in coating the said surfaces, while hot or heated, with a solution of copal, or any resinous gum insoluble in water, and spirits of wine; the said solution thus applied is intended to be used as a "priming" before painting. Applied alone it will protect and preserve the said surfaces from the corrosive action of sea or salt water, and from the oxidising influences of damp air, wet, and moisture. Applied between the said surfaces and the paint it will act as a non-conductor, and prevent any galvanic action between the latter and the former, or between the paint and the metal.

A specification has just been filed for a patent taken in my name as a communication from the Société Coignet, who are the patentees of the celebrated beton, or concrete, for submarine and other con-structive and architectural purposes. The present patent relates to a mode of treating ores and other metallic compounds, matters, or products, by pulverising the ore or other matter very finely together with the carbon required in the operation, or a portion of it, and the fluxes or other substances needful in the reduction or other process. fluxes or other substances needful in the reduction or other process. M. Coignet mixes all these ingredients well together, and works them up with a minimum quantity of water, so as to obtain the mixture in a state of powdery paste, or paste-like powder, and this he rams, presses, and works well up together, till an agglomerated mass is obtained, which is formed into blocks. These blocks are piled up in a furnace with layers of fuel, or all the fuel required may be worked up in the blocks. An improved furnace is described in which the both up in the blocks. An improved furnace is described, in which the hot products of combustion are forced to pass downward through the concrete blocks in the furnace, and pass away from the bottom portion into a chimney, the molten metal being run off, together with the slag, into a suitable hearth or chamber. A refrigerator is provided at the bottom of the furnace, through which the hot gases pass, and where they part with their excess of heat.

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

Nov. 12.-The position of the Iron Trade of this district is decidedly satisfactory. Orders for shipments to the North of Europe are now over for the season, and in the United States the great struggle for the Presidency has done much to withdraw attention from busifor the Presidency has done much to withdraw attention from business; but in spite of these drawbacks, and the adverse influence on home operations of a general election of unusual ardour, the orders continue to be moderately good, and the iron works are, as a rule, well employed. The accounts from the United States are favourable to an increased demand from that great country now that the turmoil of the election is over; and as the result has been the choice of a straightforward man, who works and does not talk, and who is regarded on all hands as firm without violence, we may reasonably look for a steady recovery in its commercial prosperity. It is very probable that railway requirements will be considerable next year, and should confidence be created in European peace we may anticipate that the large hoards of gold which lie stagnant in the vaults of the banks in Paris and London will flow in numberless channels of profitable enterprise. The demand for heavy ironwork, chains. of profitable enterprise. The demand for heavy ironwork, chains, cables, anchors, corrugated sheets, &c., is good; and there is a disposition not to accept orders in advance at present rates, lest the price of iron should be raised shortly after spring. There is a very good demand for coal, and the Hardware Trades generally are in a satisfactory state, though the improvement is, perhaps, less decided than in the iron trade. On the whole, we look forward to the winter without misgiving, and to next year with confident hope of a decided improvement.

The Birmingham Town and District Banking Company lately offered for sale the blast-furnaces and iron works at Tipton, formerly carried on by Messrs. E. Creswell and Sons, but no purchaser was found at the reserved price. The same result attended an effort to sell the furnaces which were carried on by Messrs. John Hopkins and Son at Dudley Port. Mr. H. O. Firmstone has taken the works carried on by Messrs. John Hopkins and Son Balton Hopkins an carried on by Messrs, Lee and Bolton, at the Hyde, near Stourbridge, and from his position as an ironmaster there is every prospect of a and from his position as an ironmaster there is every prospect of a successful result. A report of the trustees appointed under the bank-ruptcy of Messrs. W. Haden and Son, of Dixon's Green, Dudley, gives but little prospect of a good dividend. They have failed to get even a bidder for the landed and mineral properties, and the latter had cost a large amount to keep in saleable order. They also report the transfer of money and securities to relatives immediately before the failure, which they are seeking by legal means to have restored.

This is Martingas week they added the add systematical and the second of t

This is Martinmas week, when, under the old system, yearly engagement in the Potteries were made. That plan is less resorted to now than it was, but the week continues to be an important anniversary. The trade has during the year been depressed, and though prospects are better there is as yet no very decided improvement.

The decision obtained by Mr. Brough, that it is incumbent on proprietors of mines adequately to ventilate old welvings which are con-

prietors of mines adequately to ventilate old workings which are so contiguous to existing workings as to be a source of danger, is of the

greatest importance. This puts into the shade the decision in the case of the Queen against Cope, as there it was simply to enforce the duty of fencing off old workings likely to contain dangerous gases. To carry out the requirement will, no doubt, involve difficulties; but once done, a great source of danger will be removed. Surely with the means at the disposal of mechanical engineers, a great current of the means at the disposal of mechanical engineers, a great current or air can be forced at great pressure through old workings, so as to render impossible any great generation of inflammable gas, which a fall may send in a large volume into the working places. The decision, and the steps taken to secure it, furnish a strong answer to the letters of the two "Iron and Coalmasters" with reference to the report, and the conduct of Mr. Baker in contrast with that of Mr. Brough. It may be mentioned that the Mine Agents' Association of South Staffordshire and East Worcestershire have republished the letter from "A Coal and Iron Master" which appeared in the Mining Journal

ford-shire and East Worcestershire have republished the letter from "A Coal and Iron Master" which appeared in the Mining Journal of Oct. 24. There is, however, no reply to the letter which afterwards appeared in answer to it.

Last week a meeting of miners was held at Gornal Wood, near Dudley, to consider "The best means of bringing about the better inspection of mines, and other matters." Mr. Breakwell, the secretary of the Miners' Association, was present, and addressed the meeting, and showed the absolute necessity of organisation. He enumerated the many cvils colliers, as a class, were subjected to, both physical, moral, and social, and pointed out that it was shown in last year's Government Inspectors' return sheet on mines that 1200 persons had lost their lives in Great Britain by accidents of different kinds, and he was of opinion that two-thirds of that number of lives were recklessly sacrified through gross neglect. Hetherefore suggested that the colliers, as a body, should agitate for, and demand, sub-Inspectors, to be appointed out of their body, to assist the Government Inspector, whose duties were too ardious now to fill the office satisfactorily to the men; also that a bill be introduced in the next Parliament, to allow sub-Inspectors of mines, and to make owners of any mine, pit. or factory responsible for the neglect of the manager, butty, doggy, or anyone acting as deputy for him in the mine, pit, forze, or factory. He pointed out that it would be good policy to lay these matters before any gentlemen who might now be in the field claiming their suffrages, in order to get their views upon the subject prior to being returned to serve Parliament. He concluded with now he in the field claiming their suffrages, in order to get their views upon the subject prior to being returned to serve Parliament. He concluded with now he in the field claiming their suffrages, in order to get their views upon the subject prior to being returned to serve Parliament. He concluded with now he in the field claiming t

with the company of the control of t UTILISATION OF BLAST-FURNACE GASES-ECONOMY OF FUEL

REPORT FROM DERBYSHIRE AND YORKSHIRE.

Nov. 12.—Business generally remains in about the same state as noticed last week, several of the large iron establishments being more fully employed than for a considerable time previously. There more fully employed that for a considerable time previously. There has been no falling off in the out-put of pig-iron, but which is likely to increase by some more furnaces being put in blast. There is also a better enquiry for castings, including pipes. The coal tradehas improved considerably of late, so that the colliers are more fully employed than they have been for some months previously. The carriage of coal by railway into London for October has been about the largest during the year, and foremost amongst the localities which largest during the year, and foremost amongst the localities which have benefited by the increase is Clay Cross, from which 32,100 tons were sent during the month, out of a total tonnage which entered the metropolis by all lines of railway of 284,942 tons. From Eckington, Staveley, Pinxton, Langley Mill, and from other places, there is more doing, and it may fairly be assumed that business will continue to improve as the winter season advances. Gas could is in request. more doing, and it may fairly be assumed that business will continue to improve as the winter season advances. Gas coal is in request, a good deal being forwarded into Birmingham and the Midland and western districts. Sinking operations are being carried out in various parts of the county, and it is said that at Tibshelf, where a colliery is being opened out, the coal field taken by Mr. Elliot will prove to be amongst the largest in North Derbyshire. Electioneering proceedings have been pushed forward during the week with great energy, and the "working man" has been in great request, everyone interested in the fate of the various candidates taking to him as a veritable "pet." The contest in the division of which Chesterfield is the head promises to be very keen, whilst Mr. Jackson and his colleague in the northern division are opposed by Mr. Arkwright, of Willersley, Matlock, whose family are largely interested in the minerals of the county. If returned to Parliament he promises to "carefully watch all measures which may affect the important mineral interests of this division of the county."

As previously noticed, the general trade of Sheffield continues to

fully watch all measures which may affect the important mineral interests of this division of the county."

As previously noticed, the general trade of Sheffield continues to improve, although to some extent business is impeded by the deep excitement which rages with regard to the result of the election for the borough. Rails and merchant iron generally are in good request, and there are some considerable orders in hand for steel. The same state of affairs may be quoted with regard to the Rotherham district, where the various iron works are now kept well going. At Milton and Elsecar also there is no failing off in the trade, which is still active in almost every branch, the Messrs. Dawes having been able during the greater part of the year to keep their men well employed even when other works were all but standing. There is an improved demand for house coal for the metropolis, both of the best qualities of the Barnsley soam and of Silkstones. From Kilnhurst alone 9065 tons were forwarded by railway, and 18,615 tons of Silkstones, of which Newton and Co. sent 5708 tons, Clarke's 4509 tons, and Wharn-cliffe 374 tons. In steam coal there is no alteration to be noticed, so far as regards the business doing to Grimsby, which still continues very fair, whilst there is no increase in the tonnage going to Huil, and to which we may now look forward to a considerable decrease. It may be said with regard to Huil that, owing to the quantity of coal sent there from some of the Nottingham pits, the South Yorkshire coalowners have scarcely been able to hold their own, so that prices have been much lower than they were last year. So far as regards quality, however, the advantage is with the produce of the Barnsley coal fit id. The South Yorkshire coalowners have scarcely been able to hold their own, so that prices have been much lower than they were last year. So far as regards quality, however, the advantage is with the produce of the Barnsley coal fit id. The South Yorkshire coalowners have scarcely been able to hold their o

SOUTH YORKSHIRE MINING VIEWERS' ASSOCIATION .-- A meeting of the members was held on Wednesday, at their rooms, at Barnsley, convened for the purpose of taking into consideration a proposal made to extend their rules, with a view to including in its ranks dewards, overmen, and all who have the management of underground colliery workings. In the absence of the pre-

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sident, Mr. Woodhouse, of Derby (owing to the death of the Marquis of Hastings, and of whose collieries he was the head), the chair was taken by Mr. Embleton, when the subject which had called the members together was introduced, Mr. Mammatt, the secretary, being present. A deputation from the new body which recently met in Wakefield, consisting of Mr. P. Cooper, Mr. Miller, Mr. Minto. Mr. Hodgson, and Mr. J. Beaumont, was then introduced, the members of which fully stated their views with regard to the necessity for organising a body which should include viewers and stewards, and those who had the management of collieries, with a view to the interchange of ideas on all matters relating to the working of mines, the reading of papers, discussions, &c. The deputation also stated what had been done at the two meetings held at Wakefield and Barnsley and the initiatory steps which had been taken in forming the Yorkshire Minins Agents' Association. The deputation were very cordially received by the members of the Viewers' Association are not succeeded to the work of the viewers' Association and the subject was freely discussed However, in the absence of Mr. Woodhouse no decision was come to, but it was agreed that a copy of the rules drawn up for the conducting of the new association, with a view to their being submitted to a future meeting, which would have the advantage of the presence of Mr. Woodhouse. The new association, its said, has obtained numerous promises of support from influential colliery proprietors, and it is not unlikely that it will take in the entire coal field, including Derbyshire, Leicestershire, and Nottingham. By thus extending the area of its operations its value will be greatly enhanced, so that there will be a Midland Association instead of one confined entirely to Yorkshire. Seeling, also, that Mr. Woodhouse is extensively engaged in mining operations in the counties maned, it is believed that the extension will meet with his approval. However, whether the association be connected with the

REPORT FROM NORTHUMBERLAND AND DURHAM.

Nov. 12.—The opinion has often been expressed that the end of the Nov. 12.—The opinion has often been expressed that the end of the present year would terminate the long period of dulness and depression which has been experienced in the Iron Trade, and at present it appears to be probable that this conjecture will be verified. The trade and its branches, indeed, has been improving for some time, especially iron shipbuilding; and although the rates of pig-iron have not advanced much, yet lately prices have been looking up, and gradually hardening. It appears, indeed, to be rather unaccountable that, in the face of regular decreasing stocks, prices should have been kept down so long. The price at which pig-iron has been sold for some time, it is well known, has been far from remunerative. However, on Tuesday affairs looked much brighter at Middlesborough—there was a good attendance at the Exchange, and a decidedly improved tone on lucsday anairs looked much brighter at Middlesborough—there was a good attendance at the Exchange, and a decidedly improved tone was evinced. The list prices are as follows:—No. 1, 46s. 6d.; No. 3, 43s.; and No. 4, 42s., net cash. In manufactured iron there is no marked change, but it is confidently expected that an advance will shortly take viles.

is rather difficult to describe the condition of the Coal Trade It is rather difficult to describe the condition of the Coal Trade; the demand for house and gas coal has certainly improved, and the demand for coking coal is also improving slowly, and, of course, it may be expected to follow the course of the iron trade. The Steam Coal Trade is in the worst position at present. Browne's Export List for October throws some light on the matter, but that must not be held to be conclusive, as the state of the weather rather affected the exports last month. The total exports of coal from the North-Eastern ports, in October, were 412,494 tons, against 461,719 tons in October, 1867, showing a deficiency of 49,225 tons in the present year, that is, so far as this particular month is concerned. So much for tober, 1867, showing a deficiency of 49,225 tons in the present year, that is, so far as this particular month is concerned. So much for the exports. The trade coastwise shows a little deficiency on the same side. The return gives 532,857 tons in October, 1868, against 555,640 tons in Oct., 1867, showing a reduction of 22,783 tons. The deep sinking at Boldon still continues, and what is remarkable a stratum has been met, which if not pure rock-salt contains a great deal of that mineral; it is very hard and compact, and appears to be of considerable thickness.

It was mentioned in this letter some time ago that the committee

to be of considerable thickness.

It was mentioned in this letter some time ago that the committee appointed by the Mining Institute to report on Technical Education had made their report, and also that it was decided to submit the said report to the executive of the Coal Trade Association, and to confer with the latter body as to the course to be pursued. The resaid report to the executive of the Coal Trade Association, and to confer with the latter body as to the course to be pursued. The result is that it has been determined to commence teaching scientific and technical subjects in connection with the Government Department of Arts. This is a step in the right direction, and from which much good may be expected to result, as the rising generation of colliery overmen, &c., will be much better fitted for their duties by the knowledge intended to be imparted so soon as suitable masters can be provided at all the principal colliery centres—that is, at Newcastle, Hetton, Seaham Harbour, Sunderland, Blyth, and other places; probably Walbottle, Marley Hill, &c.

places; probably Walbottle, Marley Hill, &c.

A grand tea and entertainment was given to the workmen at Page Bank Colliery, on Saturday, at which about 450 persons sat down, the proceeds being in aid of a sick fund, to be added to the Miners' Permanent Relief Fund, a branch of which is already established. Mr. Stephenson, of Durham, vlewer for the company, who occupied the chair at the public meeting, intimated that Messrs. Bell Brothers had offered 20 per cent. on the whole subscriptions of the society, to be given to the fund, which announcement was received with loud applause. He was glad to see the society progressing so favourably, and hoped it might continue to do so.

Mr. Thos. Clarke, viewer of the Lintz Colliery, who is leaving the neighbourhood, has been presented with a purse of gold by the agents and workmen of the colliery.

NORTHERN INSTITUTE OF MINING ENGINEERS.—At the meeting of this institute, on Saturday, there was a very large attendance of members, the new President, Mr. George Elliot, being in the chair. After the election of members and other routine matters, the main business of the meeting was entered upon—that is, the inaugural address of Mr. Elliot, which was listened to with the greatest attention by the large audience. [A full digest of this elaborate production appears on page 807 of this day's Journal.]

REPORT FROM SCOTLAND.

REPORT FROM SCOTLAND.

Nov. 11.—Our Pig-Iron market was without much impulse for a few days till yesterday, when it had recovered 3d. a ton of the late decline; and attempts are being again made to "bull" it, so far as it is susceptible under the restricted demand of the closing weeks of the year. A few pence a ton, however, is all that even speculative pressure will effect, and whenever that pressure is withdrawn a rapid relapse ensues. The shipments of the week are a full average, though a small total, being only 8650 tons, as compared with 8340 tons in the corresponding week of last year. Middlesborough iron now reaches an aggregate of \$6,000 tons, against 43,500 tons, being a difference of 42,300 tons on the year. To-day "bulls" have again improved their position, and about 8000 tons were done at 53s. 4½d. to 53s. 6d. cash, and 53s. 7½d. to 53s. 9d. a-month; closing, sellers, at 53s. 6d. cash, buyers 1d. less. No. 1, g.m.b., 53s. 6d.; No. 3, 51s. 3d.; Coltness, No. 1, 59s.; Gartsherrie, 58s. 6d.; Langloan, 54s. Finished Iron is in average request, and current quotations are freely paid, and there are hopes of an advance being realised at the beginning of the year. First brands of bars are still quoted 7k.; and second, 6k. 12s. 6d. to 9k.; boiler, 9k. to 15k. Nail-rod is in extra demand for present shipment, and makers of pigs have heavier orders on hand. Iron founders are less busy, and brass founders have only limited orders to engage them. Coals have been advanced 6d. a ton since last week, but the market is lifeless on that account. The ironmasters having declined yet to increase their rates is also a cause of depression in this market: market is lifeless on that account. The ironmasters having declined but the ironmasters are expected to immediately follow the coalminers' wages. Quotations are now 6s, 6d, to 8s, a ton, according to quality. Splint coal is a drug in the market, for which there is no present outlet. The Lanarkshire miners have now all others in the company of th advance, with but few exceptions, and the pits are idle at these places. In Ayrshire, the miners are not so fortunate, and agitation is being resorted to, to hasten the advance.

At the Geological Society of Glasgow meeting, last week, a pape as read by Mr. Young "On the Section of Strata being worked in was read by Mr. Young "On the Section of Strata being worked in the Western Portion of the Gilmorehill Grounds, for the purpose of obtaining Building Stone for the Erection of the New University."

Mr. Young remarked that the chief interest to a geologist of this quarry beyond that of any other in the neighbourhood, consisted in the numerous strata therein exposed, there being no fewer than 26 different beds in a depth of 60 feet from the surface. These consist of five seams of free coal, varying in thickness from 9 to 18 in.; five beds of sandstone, with accompanying strata of clay shale, bituminous shale, fire-clay, and a thin seam of blackband fromstone. The geo-

iferous limestone series of this country, yet in this district, throughout a thickness of 900 feet, no limestone band or other calcareous strata are found. During the working of the uppermost post of sandstone in the quarry, the workmen came upon the remains of the stumps of five large fossil trees standing in an erect position, the roots being seen extending into a bed of shale upon which they once grew. They belong to the genus Sigillaria, and while they were allowed to remain in position they formed a very interesting object in the quarry.

REPORT FROM MONMOUTH AND SOUTH WALES,

Nov. 12.-The Iron Trade of this district is sufficiently brisk to keep Nov. 12.—The fron Irade of this district is sumiciently brisk to keep the works tolerably well going, and once more the hands are working four and five turns a week, which is generally considered pretty full time. The rail mills are busier than they have been for a considerable time past, although the Russian navigation season has closed, and this fact will tend greatly to allay the fears entertained by many as to there being sufficient orders on makers' books, after the close of the shipping season to the northern ports, to keep the hands employed with anything like regularity. Prices continue firm, and several makers having of late refused some good orders for delivery next year at present rates, strengthens the belief entertained by many competent of forming an opinion that an advance will take place at the commencement of the approaching quarter. The effect of this state of things is that makers are now principally engaged in completing orders on their books, and the turn of events in January next is anxiously looked forward to by all parties interested in the welfare and prosperity of the trade. The refusal to accept forward orders, except at an advance on present prices, is an unmistakable sign of the trade gradually recovering from the depression which has prevailed for the past two years, and establishing itself upon something like a firm basis, and it is generally believed that next year will witness a return to former activity and vigour. Rails are being whitned for South American and the context of the past two places and the context to the context of the past two places are the test of the context of t he works tolerably well going, and once more the hands are work witness a return to former activity and vigour. Rails are being shipped for South America, and the clearances to that country for some little time to come will be something very considerable, there being several good orders remaining at present on makers' books. The exports to America are steadily increasing, the total clearances during the past month amounting to 14,098 tons. As the Presidential election is now over, and stocks are known to be considerably reduced, several good orders are shortly expected to be received by makers in this district. From India advices are more encouraging that the force of the received to the received that the contract of the received that the received that the received the received that the received the received that the received the received that the received the received that the received the received that the received th ing than for some three or four months past, and there is now some prospect of trade with that country improving. An average amount of business is being transacted with continental houses, and latest advices are considered favourable as to future requirements, the extension of the railway system in various parts giving a cheering tone to the trade. In addition ta the clearances now being made, vessels are wanted to convey rails to Islay or Mollendo, Valparaiso, Kus-tendje, Tasmania, Salonica, Patras, Nantes, San Francisco, Buenos Ayres, St. John's, and Philadelphia, for all of which good rates are I. Bars sell freely, chiefly for the east and Continental mar. The Pig-Iron Trade is quiet, and prices have somewhat fluc-during the past week. For Tin-plates there is a steady detuated during the past week. mand, but owing to the opening of so many new establishments in the district prices are not firmly adhered to.

The Steam Coal Trade is beginning to exhibit some signs of im-

provement; but the predictions in previous reports as to the exports for the past month being below the average are fully confirmed by the returns just issued. Unfavourable weather prevailed at short the returns just issued. intervals during the whole of the month, and prevented vessels ar-riving and leaving the local ports, which, together with the reduced purchases of the mail-packet companies, readily account for the falling off in the exports. A large number of vessels entered for the local ports are known to have been detained at the Haven and other ports by the adverse winds which have prevailed; but as a favourable change has taken place in the weather hopes are now enter-tained that many days will not elapse before the steam coal trade attains a position something like its usual activity and vigour. Large clearances are about to be made to South American ports,

Large clearances are about to be made to South American ports, and French houses are purchasing considerable quantities. To the Mediterranean ports and continental markets about an average quantity is being sent. For house qualities the demand is improving. consequent upon the increasing coldness of the weather.

The workmen engaged in the Llwynpia Colliery have held their annual soirce at the distribution of prizes given by the Glamorgan Coal Company. About 400 sat down to tea in one of the large sheds at the brickworks. The chair was occupied by Mr. H. Begg, the company's local manager, who, on rising to award the prizes, said that that night was the consummation of a year's rivairy, and looking at the standard of comparison for the prizes competed for, the year that had just closed was greatly in advance of former years. He was highly delighted at the energy shown amongst the competitors to carry off prizes, and he was sure it would delight the company to hear that their workmen were competing for the prizes with such zeal, and he had no doubt the company would introduce more prizes to be competed for amongst them. Prizes varying from 1. 10s. to 5s. were awarded for the best-kept cottages and gardens, after which several solos were sung by ladies who were present, and a vote of thanks to the Glamorgan Coal Company brought the meeting to a closs.

a close.

Mr. John Williams, late forge and mill manager at the Pentyrch on Works, has been presented with a handsome gold watch and Albert guard, no watch bore the following neathy-engraved inscription:—"Presented to Mr. with Williams by the agents and workmen of the Pentyrch Forge and Mill, and fow other friends, as a token of their great esteem and appreciation of his sinre and straightforward conduct while a resident amongst them for four years."

TRADE OF THE SOUTH WALES PORTS.—The following are the re-

| | EXPORTS. | Oct., 1868. | Oct., 1867. |
|---|-----------------------------|--------------------------|------------------------|
| | Cardiff | | |
| | Newport | 29,991 | 46,393 |
| | Swansea | | |
| | Llanelly | | |
| | SHIPMENTS COASTWISE. | Oct., 1868. | Oct., 1867. |
| | Cardiff | | |
| | Newport | 65,173 | 63,366 |
| | Swansea | 20,863 | 26,476 |
| | Llanelly | 13,645 | 14,955 |
| ı | port also exported 9183 tor | s iron : Cardiff, 16 636 | tons Iron, and 8697 to |

patent fuel; Swansea, 1152 tons iron, and 9004 tons patent fuel. The exports of iron were principally rails, of which New York took no less than 10,269 tons.

MANUFACTURE OF COMPRESSED FUEL.—In his Paris Exhibition report "On Apparatus and Processes of the Art of Mining and Metallurgy," Professor Warington Smyth remarks that, without being unmindful that several companies have been established in South Walts and elsewhere for a similar manufacture (the manufacture of compressed fuel), we cannot but be conscious that their action is but an infinitesimal set-off against the wholesale waste of slack that takes place in this country. It is not only that the small coal cut and broken from the saleable part of scams is in most of our districts thrown into goaf and gob by the tens of thousands of tons, but those portions of beds, often some feet in thickness, which are intermixed with stone or "sulphur," or which makes a larger than usual proportion of slack, are at once rejected as useless, and acres of such coal are abandoned to be inextricably mixed up with broken roof and heaving floor, although of no worse quality than would be turned to advantage in many a French colliery. It is impossible, in the hard competition of the times, to blame individuals for this sin against the economical use of Nature's gifts; but it is a discredit to the country at large, and will, among our descendants, entail many an anathema on the solids stupidity of their forefathers. MANUFACTURE OF COMPRESSED FUEL.-In his Paris Exhibition

IMPROVEMENTS IN STEAM HAMMERS .- The very compact and efficient steam hammer invented by Mr. DAVID JOY, of Sheffield, is now being successfully introduced into the United States by Mr. G. BIRKBECK, jun., of Broadway, New York. The whole of the working BIRKBECK, jum., of Broadway, New York. The whole of the working parts usually liable to derangement are kept out of harm's way, by converting the piston rod into the silde valve. The hammer heigu upon the anvil, steam is admitted through the piston rod to the under side of the piston, which is lifted thereby until the passage connecting above the piston opens to the steam injet, admitting steam over the piston. Notwithstanding this, the upward stroke continues until the passage which has supplied the steam to the upward stroke continues until the passage which has upplied the steam to the weight of the hammer to carry it down with great force, until the passage connecting with the under side of the piston again reaches the steam injet. The admission of steam, and consequent speed of the hammer, is regulated and governed by a separate regulating valve, operated by the foot of the workman. A hand-g at also may be placed on the steam pipe if desired. Thus a slow and light blow, or a rapiu and heavy one, can be obtained at pleasure. For work requiring rapid and uniform blows, such as drawing small steel, making cutlery or edge tools, planishing saws, &c., this is a very efficient hammer.

LITILISATION OF SEWAGE .- Messrs, SILLAR and WIGNER, of Corn. exposed, there being no fewer than 26 different beds in a depth of 60 feet from the surface. These consists of five seams of free coal, varying in thickness from by to 18 in.; five beds of sandstone, with accompanying strata of clay shale, bituminous shale, fire-clay, and a thin seam of blackband ironstone. The goe-logical position of the strata is in what is known in the Glasgow district as the Joseph Sandstone of the tartat is in what is known in the Glasgow district as the Possil lower coal and ironstone series, which lie about 510 fathoms under the Upper Red Sandstone of the Lanarkshire coal field. Mr. Young next pointed out the relation which the Possil series bear to the strata of other portions of the Scottish coal field, and stated that they occupy a middle position in the carbon-

produce an immediate precipitation of the greater part of the injurious matter in the form of large flakes, which rapidly fall to the bottom; the supernatent liquor being then allowed to flow into a tank, a small quantity of a solution of per-chloride of iron is added to it, and this precipitates the sulphuretted hydrogen dissolved in the water, and removes the last traces of smell. In addition to these four ingredients, it has been found desirable to add a proportion of alum, as although the same degree of purity could be obtained without its use, the process is very much accelerated by it, which more than compensates for the small addition of harmless mineral matter to the water. It is claimed that the larger part of the ammonia and all the phosphates are fixed in the residium, together with about four-fifths of the organic impurities, the deposit, of course, being of great agricultural value, requiring only the addition of a small quantity of acid to render it fit for sale to the farmer. It is considered that more than three-fourths of the London sewage (worth 1,500,0001.) could be utilised by this process, at an expense of not more than one-fourth of its actual money value.

FOREIGN MINING AND METALLURGY.

FOREIGN MINING AND METALLURGY.

Tables have just appeared in illustration of the commercial movements of Belgium in the first eight months of this year, as compared with the corresponding periods of 1867 and 1866. It appears that the exports of minerals from Belgium to Aug. 31 amounted to 89,782 tons, against 108,580 tons in the corresponding period of 1867, and 113,216 tons in the corresponding period of 1866. The imports of minerals into Belgium to Aug. 31 this year were 262,255 tons, against 194,212 tons in the corresponding period of 1867, and 214,742 tons in the corresponding period of 1866. The exports of minerals from Belgium thus appear to be diminishing, while the imports are increasing. Since the commencement of 1866 the 2 virulance attained by the imports shows that Belgium no longer obtains at 1 virulance attained by the imports shows that Belgium no longer obtains at 1 virulance attained by the imports shows that Belgium no longer obtains at 1 virulance attained by the imports shows that Belgium no longer obtains at 1 virulance attained by the imports shows that Belgium no longer obtains at 1 virulance attained by the imports shows that Belgium no longer obtains at 1 virulance attained by the imports shows that Belgium no longer obtains at 1 virulance and the Grand Duchy of Luxembourg. The exports of pig from Belgium to Aug. 31 this year were 11,285 tons, against 718 tons in the corresponding period of 1867, and 11,348 tons in the corresponding period of 1866, while the imports period of 1867, and 18,344 tons in the corresponding period of 1867, the exports showing an augmentation of more than 4000 tons, while the imports present a diminution of nearly 12,000 tons. During the earlier part of this year it must be remembered that commercial affairs were in a very languishing state in Belgium, and that the Internal consumption of pig

| eriod of 1866. Annexed | are de | etails of the | xports | made to each | country |
|------------------------|--------|---------------|--------|---|---------|
| Country. | 1868. | | 1867. | mande to their | 1866. |
| RussiaTons | 33,140 | | 63,118 | | |
| Sweden and Norway | 35 | ********** | | | |
| Denmark | 852 | | 193 | | 192 |
| Zollverein | 12,958 | | 3,327 | | |
| Hanse Towns | 2,445 | | 2,237 | | 3,803 |
| Low Countries | 16,795 | | 16,257 | *************************************** | 25,108 |
| England | 6,936 | | 4,079 | ************ | 5,143 |
| France | 28,948 | *********** | 30,988 | | |
| Portugal | _ | ****** | 88 | | 1,490 |
| Spain | 725 | | 558 | | 2,100 |
| Italy | 5,839 | | 6,254 | *********** | 3,847 |
| Switzerland | 2,799 | | 1,070 | | 2,000 |
| Austria | 613 | | 252 | | 364 |
| Roman States | - | | - | ************ | - |
| Turkey | 329 | ********** | 509 | *********** | 1,730 |
| Philippine Islands | Grane | | - | ************* | 1,100 |
| Egypt | 1,550 | | - | | 568 |
| China | 202 | | 9 | | 118 |
| Singapore | - | ************ | _ | | 139 |
| United States | 2,340 | | 910 | | 2,956 |
| Cuba and Porto Rico | 1,017 | | 369 | | 812 |
| Haiti and Venezuela. | _ | | _ | | 99 |
| Brazil | 162 | | 349 | | 563 |
| Rio de la Plata | 228 | | 280 | | 813 |
| Chill and Peru | 520 | | 283 | | 383 |
| Other destinations | 386 | | 120 | | 112 |
| | | | 140 | | 114 |
| Total Tons 1 | 98.799 | 1 | 91.988 | , | 01 100 |

Total.....Tons 123,799

Total.....Tons 123,799

The state of the Belgian markets has not materially changed during the past week. The last orders for railway materials obtained by the Belgian works have assured the rolling-mills employment for almost the whole of next year; and of the 35,000 tons secured by the Belgian Syndicate of Forges for the North-Bastern Railway of Hungary, the Syndicate has been able to only accept 25,000 tons, since it was stipulated that the whole quantity should be delivered in the first ten months of 1869. The 10,000 tons which the Syndicate has been oblet to abandon have not been wholly lost, however, to Belgium, as they will be supplied by a Charlerol establishment. It is understood that the John Cockerill Company will supply a further quantity of 15,000 tons of rails for Roumania.

The Belgian coal trade has displayed a tendency to increased firmness—in fact, the deliveries have become so active that plant has made default on the State railways. A sensible amelioration has been observed in the basin of the Couchant de Mons, stocks have been ensible adveloped. Prices present thus far no great alteration, but a sensible improvement is looked for. The exports of coal from Belgium in the first eight months of this year amounted to 2,249,378 tons, as compared with 2,187,900 tons in the corresponding period of 1867, and 2,508,207 tons in the corresponding period of 1866.

There is not much novelty to report in connection with the French iron the state of the content of th

responding period of 1865.

There is not much novelty to report in connection with the Freuch iron trade. As has been already stated, the works have orders which assure them employment for several months to come. Prices have account to the content of the conten There is not much novelty to report in connection with the French iron trade. As has been already stated, the works have orders which assure them employment for several months to come. Prices have acquired considerable firmness, notwithstanding various upward movements which have been noticed of late; and were it not that a certain depression stil provalls in pig, it might be said that French metallurgy had regained its best days. At St. Dizler rolled iron from charcoal-made pig is quoted at St. 16s. to 9t; mixed ditto, 8t. 8s.; and coke-made, 7t. 8s. per ton. Sheets have made 9t. 4s. for first-class, with a scale of 8s. to 16s. per class, according to the works. The price of machine iron may be stated thus, according to quality:—No. 20, charcoal-made, 9t. 8s.; No. 20, good quality, 8t. 12s. to 8t. 16s.; No. 20, coke-made, 8t. with a scale of 8s. additional between each of the numbers, 19 and 18. The Champagne Committee of Forgemasters has held one of its periodical meetings; the proceedings were of no great interest, but a letter was read from the Prefecture of the Seine, with reference to a complaint expressed by the committee in respect to the exemption from certol duties enjoyed by iron and pig manufactured in the new enceinte of Paris. The official communication, after indicating the difficulties attending the application of the 3st article of an ordonnance of Dec. 9, 1814, informed the committee that a project for a modification of theftariff to which iron and pig are now submitted on their entrance into Paris has been under the consideration of the Council of State since 1863. The Champagne committee appeared so satisfied with this scrap of consolation that it instructed its secretary to express to the Prefect of the Seine its gratitude for the able and enlightened administration of which he had given proofs in dealing with the question; some industrials, on leaving the meeting of the committee, remarked, however, that it as desirable that the Council of State should display a little more activity in the

MINING IN SOUTH AUSTRALIA.—The prospects of the several pro-MINING IN SOUTH AUSTRALIA.—The prospects of the several properties worked by the Yorke Pen'nsula Mining Company appear, from the latest advices received in the colony, to be very satisfactory. The Kurilla section, it will be remembered, was originally taken up by the Bon Accord Company, who, in due time, struck a lode parallel to the Wallaroo, which, at 25 fms., spread out into 7 ft. wide, and produced some tons of 25 per cent. ore, and the Bon Accord Company became absorbed in the Yorke Peninsula Mining Company, who also bought up the New Devon and Duryea claims. The Kurilla group comprises half-a-dozen sections, of which four immediately face the Wallaroo Mine. The Kurilla lodes run east and west, with an underlie northwards. Hall's engineshaft, the principal shaft at present at work, is about ½ mile south from the Wallaroo lode, and is down a few fathoms below the 35, levels having been driven eastward at 15, 25, and 35 fathoms. At the 35 fm, level the lode shows a width of 2½ ft., and 18 worth 1½ ton of 20 per cent. ore per fathom. Four men are hore stoping, and four driving eastward. Near this place a junction has been discovered which must turn out to be a branch lode of the New Devocoming from the westward. The shaft will be continued as soon as possible to the 45, and the ores taken out of it give, in their steadily improving quality, every inducement to proceed with vigour. In the winze from the 25 to the 35 the lode is 4 ft. wide, yielding 2 tons per fathom of about 15 per cent. ore. The mine is coming into operation again after fully a year's suspension: 18 hands are employed. Capt. Anthony, late of the Yudanamutana, the superintendent, has rendered important services to the mining interests of the colony, not only as a miner, but as a smelter. Every month he contrives to increase his supply of ore, and to increase its quality. In July last he sent away about 16 tons; August, 30 tons; and by the second week in September he had fully 20 tons on the floors. It has averaged 18 per cent. all round, the latest raisings from the shaft having run considerably higher. The stratification in the Kurilla has been throughout similar to that of its neighbours, beginning with green ores, next changing to black and grey oxides, and then settling down into yellow sulphurets. Outwardly, the Duryen is still one of the smartest-looking places on the Peninsula. It has the largest heap of "deads" round the mouth of the shaft. Its engine-house is the neatest within sight, and its low-pressure engine is one of the best ever imported. The furnaces are still full of ashes, as if they had gone out only yesterday. The surnounding cottages are still tenanted with people who bustle about as if they were to resume work in course of the afternoon. The whip is still standing, with most of the gear attacked to it, as if the pucket had been taken

MINING, AND THE PRESENT POSITION OF THE METAL MARKET-No. III.

TO THE EDITOR OF THE MINING JOURNAL.

SIB,—In my last letter I endeavoured to establish some statements previously made by me in your columns as to the profitable character of legitimate mining. My letter has, happily, been noticed in various quarters, and questions have been addressed to me by letter, as well as viva voce, as to whether I had not made some mistake in some of the instances which I gave as to the enormous profits which followed very small investments. In other communications made to me I have been asked whether, assuming my statements to be correct, I had not exhausted the list of such splendid investments. And another class of correspondents have suggested that the like cannot happen again, as the mines of Cornwall cannot be worked remuneratively at the great depth at which they must now be. I can aver that no mistake has occurred in the statistics which I presented. I can assure my correspondents that I have by no means exhausted the list of great mines which pour, or have poured, forth their treasures upon an outlay so small as naturally to excite the wonder of persons not conversant with the history of mines and mining. The circumstance ought to excite the admiration as well as wonder of such persons, and lead them to give to this department of industrial invest-SIR,—In my last letter I endeavoured to establish some statements stance ought to excite the admiration as well as wonder of such persons, and lead them to give to this department of industrial investment their attention, and even preference. As to the future, there can be no doubt that Cornwall has prosperity in store for her whenever the general business of the country possesses an average success. In seasons of monetary panic, when confidence is paralysed, and money is horded by the investing classes under a general contagion of timidity, mining must suffer, and the mines which from depth or any other cause are most costly will be least remunerative, but assuming husiness throughout the country to be in its normal condition.

In seasons of monetary panic, when confidence is paralysed, and money is horded by the investing classes under a general contagion of timidity, mining must suffer, and the mines which from depth or any other cause are most costly will be least remunerative, but assuming business throughout the country to be in its normal condition, then the deep mines, which are often rich in proportion to their depth, will be, as they so often have been, fountains of treasure.

Permit me, Sir, to prove that I have not exaggerated the productive value of British mines, by affording to your readers additional evidence of the fact. This can be done by selecting instances of mines not now worked, as well as of those now yielding vast quantities of ore. It has been often asserted that the mines of Cornwall are exhausted, but from a careful analysis of the mining catalogue of the county it appears that only a few mines, (say) five or six, have gone beyond the depth of 300 fathoms, from 12 to 15 beyond 200 fathoms and less than 300, about 60 have gone to a depth below 200 fathoms and less than 300, about 60 have gone to a depth below 200 fathoms and less than 300, about 60 have gone to a depth below 200 fathoms and less than 300, about 60 have gone to a depth below 200 fathoms and less than 300, about 60 have gone to a depth below 200 fathoms and less than 300, about 60 have gone to a depth below 200 fathoms and less than 300, about 60 have gone to a depth below 200 fathoms have seen so the seen and the seen an

1,141,760l. On an outlay of 3120l., Tressvean paid 450,000l. dividends. Basset, on an outlay of 2624l., paid 323,000l. sterling dividends. Buller yielded nearly as much upon a still smaller outlay. Before 10,000l. was laid out upon South Frances, 143,000l. was returned. Basset, upon an outlay a little less, yielded more than eight times that cost. Levant, upon 1300l. expenditure, returned 140,000l. in dividends. South Caradon returned 300,000l. upon an expenditure of 640l. West Wheal Seton, with less than 2000l., has paid close upon 250,000l. At Dolcoath, which is a deep mine, less than 50,000l. have been expended, and more than 300,000l. have been returned. Wheal Frances made, with 9000l., 20 times that amount. Tincroft, upon an outlay of 54,000l. and more than 300,000% have been returned. Wheal Frances made, with 9000%, 20 times that amount. Tincroft, upon an outlay of 54,000%, gave 118,800%. Botallack has given 97,750% to the shareholders, on an expenditure of 18,360%. East Pool spent a little over 3000%, and gave the proprietary 56,640%. It is quite unnecessary, Mr. Editor, to go further into these details. These are facts, independent of the fluctuating price of shares in the market, as the "bulls" gore the "bears," or the "bears" squeeze the "bulls." It is to the progressive development of the metallic mines that the investor should look. He ought not to be described as engaged in mining, or as having invested in a mine, who is merely a trafficker in the variable values on vested in a mine, who is merely a trafficker in the variable values on the exchanges, irrespective altogether of the true value of the com-

modity ostensibly represented, and the name of which is literally often borrowed for mere gambling purposes. A gentleman, a member of a very powerful firm in Cornwall, interested in over 100 mines, lately declared to me that he never takes notice of the telegrams sent to declared to me that he never takes notice of the telegrams sent to him by sharedealers, or of the quotations on the stock and mining share markets. What he looks at and ponders deeply is the report of the engineers and mining captains of the development and character of the mine itself. This is the true mode of procedure. The reports made by competent persons at the mine itself is the true test for the investor. All emblazonments and puffs are valueless in connection with mines. The reports are invaluable. If we had the monthly reports of the various mines in Cornwall during 200 years, as we have had in your columns for 30 years, it would be one of the most interesting and important volumes, or series of volumes, which ever entering and important volumes. had in your columns for 30 years, it would be one of the most interesting and important volumes, or series of volumes, which ever enriched the shelves of a private gentleman or public institution. We should have materials for comparison as to cost and returns, and the character and quality of the development of those properties during progressive operations. It would be alike worthful to the man of science, the practical miner, and the investor. I trust, Mr. Editor, that I have made good my assertion that there is no form of investment open to British capitalists which has been so profitable, and in which, at the same time, the investor can so clearly judge of prospects and probable results.—Gresham House.

THOMAS SPARGO.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

IN the MATTER of the COMPANIES ACT, 1862, and of the GREAT TREGUNE CONSOLS MINING COMPANY.—By the direction of His Honor the Vice-Warden, notice is hereby given that on Monday, the 23d day of November inst., at the Registrar's Office, Truro, in the country of Cornwall, at Eleven o'clock in the forenoon, this Court will PROCEED to MAKE a CALL of THREE SHILLINGS AND NINE PENOE PER SHARE on all the contributories settled on the List of Contributories settled on the List of Contributories of the above-named company under Class A. All persons interested therein are entitled to attend at the time and place aforesaid to offer objections to such call.

W. MICHELL, Registrar of the said Court.

Dated Registrar's Office, Truro, the 5th day of November, 1868.

In the Matter of the Companies Act, 1862, AND IN THE MATTER OF THE HENDRE LEAD MINING COMPANY (LIMITED)

MOLD, FLINTSHIRE.

POWERFUL and COSTLY MACHINERY, of the most expensive descript to and in complete working order, together with the MINING APPARATUS, TOOLS, STORES, and MATERIALS, in One Lot.

A Lease of the Mine may be had from the Landlord on favourable terms. A Lease of the Mine may be had from the Landford on favourable terms.

MESSRS, J. AND E. BADDELEY are directed by the Liquidators
TO SELL. BY AUCTION, at the Auction Mart, Tokenhouse-yard, London, on Friday, November 20, at Twelve for One, in One Lot, the VALUABLE PLANT and MACHINERY on the WORKS of

THE HENDRE MINE,

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About four miles from MOLD, in the county of FLINT, comprising a 900-horse power CORNISH PUMPING ENGINE, with 100 in. cylinder, and 11 ft. stroke; a 576-horse power CONDENSING ENGINE, with 80 in. cylinder, and 10 ft. stroke; a 24-horse power CONDENSING ENGINE, with 80 in. cylinder, and 5 ft. stroke; a 36-horse power horizontal high-pressure ENGINE; two smaller ENGINES; seven 35 ft. cylindrical BOILERS; one 15 ft. ditto; a steam crusher, bydraulic lifting pumps, patent 8 ton weighing machine, powerful winches, serews, fittings of pits, fron ladders, wire rope, 30 tons of castings, &c., lathes, and other tools, quantity of timber, and effects. The property may be viewed, by order only, to be obtained of the auctioneers, and particulars may be had on application to the captain of the mine, on the premises; and in London, of T. H. Lambert, Esq., solicitor to the liquidators, 90, Lower Thames-street; and of Messrs J. and E. Baddeley, auctioneers and surveyors, 26, Bishopsgate Within, City, E.C.

LLYFNANT SLATE QUARRY. MONTGOMERYSHIRE, NORTH WALES

MR. GEO. A. H. POTTER, Auctioneer and Valuer, has been instructed TO SELL the ABOVE, BY PRIVATE TREATY, near the Railway, and close to the River. Full particulars sent on application to the Auctioneer, 17, Orange-street, Swansea, South Wales.

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EXTENSIVE AND VALUABLE LEASEHOLD PROPERTY, held under lease from the Marquis of Waterford, EXPRESSLY for OPENING UP the EXTENSIVE SLATE BED which traverses the MOUNTAIN RANGE, called "THE COMERAGHS," on the LANDS of CLONDONNEL, county of WATERFORD, within four statute miles of KILSHEELAN, where there is every facility for sending off slates by boat or rail, either for sea or inland trade.

inland trade.

A good deal of work has been done, and slates got; but, compared with the extent of this slate property, it may be called a trial only, yet sufficient to prove to those versed in such business that there is good slate and a large field for extensive operations. The ground rises about 1 in 3 to 700 feet, and no machinery wanted for hauling; water for dressing-machines can be had at all times, and from a very high fall.

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The Gorn Mine has yielded large quantities of lead, and will, with comparatively small outlay, no doubt, become dividend-paying at an early period. The exploration of the property has been suspended mainly in consequence of the death of one of the largest shareholders; but should speculators, knowing the merits of the mine, be disposed to co-operate in its future development, the present company would treat with them on equitable terms.

Address, "Secretary of the Gorn Mine," MINING JOURNAL Office, 26, Fleet-street, London, E.C.

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A plot of about one acre, with substantial factories, engine-house chimneys, stable, outbuildings, and sheds, suitable for any manufacturing purpose. ENGINE of most recent construction, and BOILER nearly new.
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breast, with iron axie, complete; and one 12-head STAMPS, axie, stands,
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U PWARDS of 6000 LARCH, 4000 OAK POLES, 100 OAK and OAK PLANKS upwards of 20 feet long; ELM COAL-PIT RINGS, ready

OAK PLANKS upwards of 20 feet long; ELM COAL-PIT RINGS, ready cut, in stock ENGLISH TIMBER supplied in the round, and OAK and LARCH SCANTLING cut to sizes for railway and coal-wagon building. Dealer in all kinds of BRITISH TIMBER. MILLWRIGHTS, ENGINEERS, COACH BUILDERS, WHEELWRIGHTS, &c., supplied on the most reasonable terms. JAMES ATKINSON,

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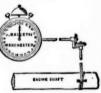
ANTI-FRICTION GREASE, 10s. to 14s. per cwt.
Wire rope ditto, free from acid, 15s. per cwt. Liquid ditto (between thick and thin), for trams, &c., 8s. to 12s. per cwt.
SKIP, HUTCH, CORVE, and WAGON OILS, from 8s. to 12s. per cwt.
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THE PROPRIETORS of this INVENTION, in order to open to Take Contracts for DRIVING LEVELS.

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See his recent work on Curative Electricity. By post thirteen stamps.

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Contracts for Fresh Ox Beef.

CONTRACT DEPARTMENT, ADMIRALTY, SOMERSET HOUSE.

THE COMMISSIONERS for Executing the Office of Lord High Admiral of the United Kingdom of Great Britain and Ireland, do hereby give notice that on TUESDAY, the 1st December next, at may be WILLING to CONTRACT for SUPPLYING (under separate contracts) all such quantities of FRESH OX BEEF

all such quantities of FRESH OX BEEF

As may be demanded for the use of Her Majesty's ships and vessels at the following places, from the 1st January to the 30th June, 1869, both days included

ENGLAND, &c.
Jersey and Guernsey
Littlehampton
Liverpool
London Bridge to Woolwich, Inclusive Berwick Cowes Dartmouth Exmouth Falmouth Fleetwood Gravesend Greenhithe wich, inclusive Lymington Milford Haven, Pem-broke, and Pater Netley Newhaven Harwich Penzance Roads Portland and Portland Aidrishaig Greenock

Plymouth (oxen) Portsmouth (ditto) Sheerness (ditto) Ramsgate Scilly Southampton Swansea
Weymouth
Whitstable
Yarmouth (North).

SCOTLAND.

Granton
Queensferry. IRELAND.
Killibegs
Kingstown and Dublin
Limerick
Lough Foylo
Lough Swilly
Mill Cove (Berehaven) Bantry Belfast & Carrickfergus Queenstown and Kinsale Rathmullen Valentia Waterford Westport.

Kilrash

N.B.—The contractors are to supply good, fat, well-fed Ox Beef, as No heifer

N.B.—The contractors are to supply good, fat, well-fed Ox Beef, as No heifer

MEAT will be admitted.

The Lords Commissioners of the Admiralty reserve to themselves an unlimited
power of selection in accepting the tenders.

Particular attention is called to the revised conditions of the Sheerness Contract, which is to helude supplies to all ships and vessels between Chatham and
the Great Nore, both inclusive; also the Naval Barracks at Sheerness.

Parties tendering for Portsmouth, Plymouth, and Sheerness are to specify in
their tenders a rate per 100 lbs. for live oxen, delivered in the usual manner;
and no attention will be paid to any offers not so made.

Separate tenders must be made for each port, and at a rate per 100 lbs., and
no attention will be paid to any offers not so made. Contracters, in claiming
payment for the supplies of beef, are to make out their invoices in pounds at
per 100 lbs.

per 100 lbs.

The cattle under the Sheerness contract to be slaughtered in the Admiralty slaughter-house at Sheerness, for Falmouth on the spot, and for Portland not farther from that port than Weymouth; the contractors for Portland and Dartmouth are also to deliver the meat on board H.M. ships and vessels.

The contractors for Portland and Weymouth are to reside at Portland or Weymouth.

Weymouth.

The contractor for any of the other places is to reside on the spot, or to have an agent resident there, whose name and address must be given on the tender. Conditions of the contracts may be seen in the lobby of the Department of the Controller of Victualling, Admiralty, Somerset House, W.C.; or by applying to the superintendents of the victualling establishments at Deptford, Gosport, and Plymouth; the superintendents of Her Majesty's Dockyardsat Woolwich, Chatham, Sheerness, and Pembroke; the Naval and Victue Iling Storekeeper at Haulbowline; the officers conducting the packet service at Liverpool and Southampton; the Secretary to the Postmaster-General, Dublin; to the collectors of Her Majesty's Customs at Harwich Ramsgate Ramsgate Scilly Swansea Waterford Westport Weymouth Yarmouth. Belfast Berwick Harwich

Belfast Berwick Berwick Hull

Gowes Jersey and Guernsey Sellly

Bartmouth Longh Foyle and Fleetwood Galway Greenock

Greenock Penzance

And to the postmasters at each of the other places.

Forms of tender may also be obtained on application at the lobby of the Department above mentioned, or to the proper officers at either of the above places.

No tender will be received after Twelve o'clock at noon on the day of treaty, nor any noticed unless made on the printed form provided for the purpose; but it will not be necessary that the party tendering or an agent appointed by him should attend at this office, as the result of the offer received from each person will be communicated to nim and to his proposed sureties in writing.

Every tender must be delivered at the Department of the Controller of Victualling, Admiralty, Somerset House, and signed by two responsible persons, engaging to become bound with the person tendering in the sum of £1500 for the due performance of each of the contracts for Sheerness, Portsmouth, Plymouth, and Queenstown and Kinsale; and in the sum of £300 for each of the other contracts.

The contractors to pay half the amount of the stamps on their contracts, and

contracts.
The contractors to pay half the amount of the stamps on their contracts and bonds.
By order.
ANTONIO BRADY,
Registrar of Contracts and Public Securities.
Contract Department, Admiralty, Somerset House, Nov. 5, 1868.

Contracts for Vegetables.

CONTRACT DEPARTMENT, ADMIRALTY, SOMERSET HOUSE.

THE COMMISSIONERS for Executing the Office of Lord High Admiral of the United Kingdom of Great Britain and Ireland, do hereby give notice that on TUESDAY, the 1st of December next, at Twelve o'clock at noon, they will be READY to TREAT with such persons as may be WILLING to CONTRACT for SUPPLYING all such quantities of VEGETABLES

As may be demanded for the use of Her Majesty's ships and vessels at the following places, from the lat April, 1859, to the 31st March, 1872, both days included, viz.:

Berwick
Chatham to Gillingham, inclusive
Cowes
Dartmouth

VEGETABLES

ENGLAND, &c.
Hull, Hawke Roads, and in the Humber
Jersy and Guernsey
Littlehampton
Littlehampton
Littlehampton
Liverpool

Cowes
Dartmouth
Exmouth
Falmouth Gravesend Greenhithe Harwich Holyhead Granton

Liverpoon Liverpool London Bridge toWool-wich, inclusive Milford Haven, Pem-broke, and Pater Portland and Portland Roads SCOTLAND.

Plymouth Sheerness, from below Gillingham to the Great Nore, inclusive Ramsgate Southampton Swansea Weymouth Whitstable Yarmouth, North). Yarmouth (North).

Greenock IRELAND.
Kingstown and Dublin
Lough Foyle
Mill Cove (Berehaven)
Queenstown & Kinsale

| Queensferry.

Bantry Belfast Galway Kilrush

Kilrush

Queenstown & Kinsale

Separate tenders must be made for each port, and at a rate per 100 lbs, instead
of at per cwt., and no attention will be paid to any offers not so made. Contractors in claiming payment for vegetables supplied are to make out, their invoices in pounds at per 100 lbs.

The Lords Commissioners of the Admiralty reserve to themselves an unlimited
power of selection in accepting the tenders.

Conditions of the contracts may be seen in the lobby of the Department of the
Controller of Victualling, Admiralty, Somerset House, W.C.; or by applying to
the superintendents of the victualling establishments at Deptford, Gosport, and
Plymouth; the superintendents of Her Majesty's Dockyards at Woolwich, Chatham, Sheerness, and Pembroke; the Naval and Victualling Storekeeper at Haulbowline; the officers conducting the packet service at Liverpool and Southampton; the Secretary to the Postmaster-General, Dublin; to the collectors of Her
Majesty's Dustoms at—

Belfast

Greenock
Ramsgate
Swansea

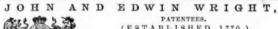
Greenock
Harwich
Waterford

Belfast Bervick Harwich Swansea
Bervick Harwich Swansea
Berwick Harwich Swansea
Hull Matter Waterford
Dartmouth Jersey and Guernsey Waterford
Falmouth Londonderry (for Weymouth
And to the postmasters at each of the other places.
Forms of tender may also be obtained on application at the lobby of the Department above mentioned, or to the proper officer at either of the above places.
No tender will be received after Twelve o'clock on the day of treaty, nor any noticed unless made on the printed form provided for the purpose; but it will not be necessary that the party tendering, or an agent appointed by him, should attend at this office, as the result of the offer received from each person will be communicated to him and his proposed sureties in writing.
Every tender must be delivered to the Department of the Controller of Victualling, Admiralty, Somerset House, and signed by two responsible persons, ongasing to become bound with the person tendering in the sum of £100 for each of the contracts.

ongaining to become bound with the person tendering in the sum of £100 for each of the contractors to pay half the amount of the stamps on their contracts and bonds.

By order, ANTONIO BRADY, Registrar of Contracts and Public Securities.

Contract Department, Admiralty, Somerset House, Nov. 5, 1868.



PATENTEES.

(ESTABLISHED 1770.)

MANUFACTURERS OF EVERY DESCRIPTION OF
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PATENT FLAT AND ROUND WIRE ROPES, From the very best quality of charcoal iron and steel wi

PATENT FLAT AND ROUND HEMP ROPES.

SUIPS RIGGING, SIGNAL AND FENCING STRAND, LIGHTNING CONDUCTORS, STEAM PLOUGH ROPES (made from Webster and Horsfall's patent steel wire), HEMP, FLAX, ENGINE YARN, COTTON WASTE, TARPAULING, OIL SHEETS, BRATTICE CLOTHS, &c.

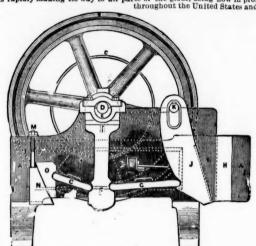
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FOR REDUCING TO SMALL FRAGMENTS ROCKS, ORES, AND MINERALS OF EVERY KIND, way to all parts of the globe, being now in profitable use in California, Washoe, Lake Superior, Australia, Cuba, Chili, Brazii, and throughout the United States and England. Read extracts of testimonials:



grand. Read extracts of testimonials:—

The Parys Mines Company, Parys Mines, near Bangor, June 6.—We have had one of your stone breakers in use during the last twelve months, and Captain Morcom reports most favourably as to its capabilities of crushing the materials to the required size, and its great economy in doing away with manual labour,

For the Parys Mining Company,

JAMES WILLIAMS,

H. R. Marsden, Esq.

Ecton Emery Works, Manchester.—We have used Blake's patent stone breaker made by you, for the last 12 months, crushing emery, &c., and it has given-very satisfaction. Some time after starting the machine a piece of the moveable java about 20 lbs, weight, chilled cast-iron, broke off, and was crushed in the jaws of the machine to the size fixed for crushing the emery.

H. R. Marsden, Esq.

Thos. Goldsworthy & Sons.

Alkali Works, near Wednesbury.—I at first thought the outlay too much for so simple an article, but now think it money well spent. WILLIAM HUNT.

Welsh Gold Mining Company, Dolgelly,—The stone breaker does its work a mirably, crushing the hardest stones and quartz.

WM. DANIET.

Our 15 by 7 in. machine has broken 4 tons of hard whinstone in 20 minutes, for fine road metal, free from dust.

Messrs. ORD and MADDISON, Stone and Lime Merchants, Darlington, Kirkless Hall, near Wigan.—Each of my machines breaks from 100 to 120 tons of limestone or ore per day (10 hours), at a saving of 4d. per ton.

JOHN LANCASTER.

Ovoca, Ireland.—My crusher does its work most satisfactorily. It will break 10 tons of the hardest copper ore stone per hour. WM. G. ROBERTS.

General Frémont's Mines, California.—The 15 by 7 in. machine effects a saying of the labour of about 30 men, or \$75 per day. The high estimation in which we hold your invention is shown by the fact that Mr. Park has just ordered a third machine for this estate.

SILAS WILLIAMS,

For circulars and testimonials, apply to-

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ONLY MAKER IN THE UNITED KINGDOM.

CAUTION! BLAKE'S PATENT STONE BREAKER.

In Changery. BLAKE v. ARCHER, NOVEMBER 12, 1867.

His Honour the Vice-Chancellor Wood having found a VERDICT in FAVOUR of the PLAINTIFFS in the above Cause, establishing the VALIDITY of BLAKE'S PATENT, and made a DECREE for an INJUNCTION to RESTRAIN the DEFENDANTS, Messrs. Thomas Archer and Son, of Dunston Engine-Works, near Gateshead-on-Tyne, from INFRINGING such PATENT, and erdering them to pay to the Plaintiffs the costs of the Suit.

ALL PERSONS are hereby CAUTIONED against MANUFACTURING, SELLING, or USING any STONE BREAKERS similar to BLAKE'S, which have not been manufactured by the Plaintiffs. Application will forthwith be made to the Court of Chancery for INJUNCTIONS AGAINST ALL PERSONS who may be found INFRINGING BLAKE'S PATENT after this notice.

SOLE MAKER IN ENGLAND, H. R. MARSDEN, SOHO FOUNDRY, MEADOW LANE, LEEDS.

> SILVER MEDALS, CLASSES 40-51. PARIS EXHIBITION, 1867.

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PLUMBAGO CRUCIBLE COMPANY,

LONDON, BATTERSEA WORKS,

These Crucibles (Morgan's Patent) were the only ones to which Prize Medals were awarded in London, 1862; Dublin 1865;

These Crucibles (Morgan's Patent) were the only ones to which Prize Medals were awarded in London, 1862; Dublin 1865; New Zealand, 1865; and Oporto, 1865.

They have been in use for many years in the English, Colonial, French, and other Foreign Mints; the English, French, and other Arsenals; and have been adopted by most of the large Engineers, Founders, and Refiners at Home and Atroad.

The capabilities which have now for more than tweetve years distinguished these Crucibles are:

Their quality is uniform. They withstand the greatest heat without danger. Their average durability for Gold, Silver, Copper, and other ordinary metals is forty to fifty pourings, in some cases reaching one bundred. They never crack, and heat more rapidly than any other kind. One annealing only metals is forty to fifty pourings, in some cases reaching one bundred. They never crack, and heat more rapidly than any other kind. One annealing only metals is forty to fifty pourings, in some cases reaching one bundred. They never crack, and heat more rapidly than any other swing of labour and is required. Change of temperature has no effect. They can when bot from the furnace be dipped in cold water with safety. The saving of labour and metal is very great. (Messrs, BREDEN and BOOTH, Birmingham, testify to the saving of 1 ton 2 qrs. 21 lbs. 4 ozs. of metal in melting 75 tons 6 cwts. of metal is very great. (Messrs, BREDEN and BOOTH, Birmingham, testify to the saving of 1 ton 2 qrs. 21 lbs. 4 ozs. of metal in melting 75 tons 6 cwts. of metal has been denomstrated to amount to a ton and a half to every ton of steel fused. For zinc they last longer than brass.) In Steel Melting the saving of fuel has been denomstrated to amount to a ton and a half to every ton of steel fused. For zinc they last longer than brass.) In Steel Melting the saving of metal must be great, because to each worn crucible a quantity of metal and puel alone is more than equivalent to their cost.











STAND. are made in sizes varying from 2 ozs. to any required capacity, and are marked by the quantity of kilogrammes they will contain; thus No. 100 will contain A are made in sizes varying from 2 02s, to any requires A, and are similarly marked. 100 kilogrammes. B differ in shape, but correspond in all other respects with A, and are similarly marked. C are marked in English pounds—thus, a crucible marked 60 will contain 60 lbs. D are made expressly for steel in various sizes.

CRUCIBLES PATENT ${f MORGAN'S}$

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Having secured new Patents

for our Manufacture, and to prevent fraudulent Imitations,



we call particular attention

to our Trade Mark, as here

shown.

"It follows, with the persistence of a law, that originators should be beset by imitators, just as in the natural world the finest organic forms are most liable to parasitical growth."—Miss Metevard's Life of Josiah Wedgewood, the Potter.

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VERTICAL

STEAM-ENGINE.



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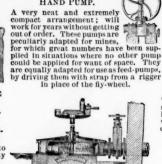
IMPROVED

CHAIN-PUMP,
Worked direct by
Stechi-Engine.
these pumps work vertical cylinithout valves or der construction, and raise a ion. The pump water. They will ton are of gunwater. They will ton are of gunwater water. They will ton are of gunwater water. They will ton are of gunwater water. They will ton are of gunwater water without choking, whole wery and require only very strong and nexpensive repairs. compact.

ELEVEN PRIZE MEDALS taken at the Exhibition.



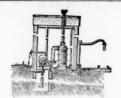
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IMPROVED PLUNGER HAND PUMP.





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PATENT COMBINED STEAM-PUMP,
As Applied to Railway Stations.
The vertical boiler supplies the engine with
steam, the pump discharging the water
lifted from the well into the tank above,
whence it may be drawn as occasion requires, for feeding locomotives, washing
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Estimates given.





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Small and powerful tow in cost, economical works foundations. First Prize worked direct by steam cogine at the mouth deal awarded at Paris last year for different in situations where, from pendiar circumstances, the centrifugal pump is inapplicable.

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Are now making Cast-Steel suitable for Tools, Taps, Dies, Chisels, &c., &c., Shear Steel, and Iron of a very superior quality, by their direct process, under the superintendence of the Patentee.

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For Horizontal Cylinder Fixed Engine,-THE FIRST PRIZE OF £20. For Double Blast Finishing Thrashing Machine,-THE PRIZE OF £15.

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ENGINES AND BOILERS COMBINED. From 2 to 20-horse power. Small sizes usually ready for delivery.

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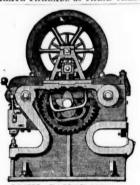
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Obtained the PRIZE MEDALS at the "ROYAL EXHIBITION" of 1851; at the "INTERNATIONAL EXHIBITION" of 1862, in London; at the "IM-PERIAL EXPOSITION" held in Parls, in 1855; at the "INTERNATIONAL EXHIBITION," in Dublin, 1865; and at the "UNIVERSAL EXPOSITION," in Parls, 1867.



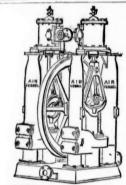
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THE MINING JOURNAL, RAILWAY AND COMMERCIAL GAZETTE. 820 WEST END STOCK, SHARE, AND INVESTMENT THE MINING SHARE LIST. AGENCY. INVESTMENTS in PUBLIC SECURITIES effected on the most advantageou erms. LOANS GRANTED on marketable stocks and shares. EXCHANGES of STOCKS and SHARES NEGOCIATED. This agency affords West End operators facilities hitherto to be had only in he City. 9, Adam-street, Adelphi, London, W.C. Office hours, Ten till Four. 30 Great North Downs. BRITISH DIVIDEND MINES. 9, Adam-street, Adelphi, London, W.C. Office hours, Ten till Four. 50 Royalton. 75 So. Condurrow, 198 6 55 New Lovell, £1. 5 Wh. Mary Ann, £19½ 70 Frontino, 158. 10 Wt. Caradon, call pd. 10 East Lovell, £1. 20 Chiverton, £41 18. 30 Great North Downs. 50 Word Chiverton, £61½ 10 Great Laxey, £20½ 50 No. Treskerby, 9s. 30 W. Gt. Work, £2 12 60 K.Work, £2 12 60 North Crefty, £11½ 50 Don Pedro, £3 3 9 pm. 55 Great North Downs. 60 Word North Laxey. 60 Chiverton, £41 18. 56 Great So. 60 Work, £2 12 60 Chiverton, £41 18. 60 Great So. 60 Work, £2 12 60 Don Pedro, £3 3 9 pm. 60 Chiverton North Laxey. 60 Crebor, 9s. 60 Great North Downs. 60 Work, £2 12 60 Don Pedro, £3 3 9 pm. 60 Great So. 60 Work, £2 12 60 Don Pedro, £3 3 9 pm. 60 Great North Downs. 60 North Creat Laxey, £20½ 60 North Crefty, £11½ 60 Don Pedro, £3 3 9 pm. 60 Great North Downs. 60 Work, £2 12 60 North Crefty, £11½ 60 North Crefty, OFFER WANTED—3 Cardiganshire Lead Mine shares, £17 10s. paid. We strongly recommend the purchase of New Clifford Copper and Tamar Valley Silver-Lead shares at present prices. Full particulars of both these properties on application. INVESTMENTS. M ESSRS. FAIRBAIRN AND CO., MINING ENGINEERS, STOCK AND SHARE DEALERS. No. 160. GRESHAM HOUSE, OLD BROAD STREET, LONDON, TRANSACT BUSINESS, for cash or account, in Stock Exchange or other Securities. Our "Guide" for the present month is now ready, and can be had free upon application. It contains particulars of the best paying and safest Progressive Undertakings, Stocks, Debentures, Bonds, and Shares. A daily Price List, showing the latest quotations, with special remarks upon Mines, Banka, Railways, Gas, and Water Companies, together with English and Foreign Stocks and other Securities. Published every evening at Six o'clock, and will be forwarded on receipt of stamped envelope. T H O M A S T H O M A S COPPER ORE WHARVES, SWANSEA. COPPER ORE WHARVES, SWANSEA. NICHOLLS, MATHEWS, AND CO., ENGINEERS, TAVISTOCK FOUNDRY, TAVISTOCK MANUFACTURERS of STEAM ENGINES OF EVERY DESCRIPTION, made on the BEST and NEWEST PRINCIPLES. We beg more especially to call the attention of the public to the MANUFACTURE of our BOILERS, which hav been tested by most of our leading engineers. PUMP WORK CASTINGS of EVERY DESCRIPTION, both of brass and iron. HAMMERED IRON and HEAVY SHAFTS of ANY SIZE. CHAINS made of the best iron, and warranted. MINERS' TOOLS and RAILWAY WORK of EVERY DESCRIPTION. ALL ORDERS FOR ABROAD RECEIVE their BEST ATTENTION. NICHOLLS, MATHEWS, and Co. have had 20 years' experience in supplying machinery to foreign mines, and selecting experienced workmen to erect the same, where required. Mess-rs. NICHOLLS, MATHEWS, and Co. bave always a LARGE STOCK of SECOND-HAND MINE MATERIALS in stock, and at moderate prices. WILLIAMS'S PERRAN FOUNDRY COMPANY, PERRANARWORTHAL, CORNWALL. MANUFACTURERS of STEAM PUMPING and EVERY OTHER KIND of ENGINES, together with BOILERS, PUMP CASTINGS, and MINING TOOLS of every description, of the very best quality. Estimates given for the supply of any amount of machinery. London Agent.—Mr. EDWARD COOKE, 76, Old Broad-street, London, E.C. RAILWAY CARRIAGE COMPANY (LIMITED) OLDBURY WORKS, NEAR BIRMINGHAM. OLDBURY WORKS, NEAR BIRMINGHAM. MANUFACTURERS of RAILWAY CARRIAGES and WAGONS, and EVERY DESCRIPTION of IRONWORK. Passenger carriages and wagons built, either for cash or for payment over a period of years. RAILWAY WAGONS FOR HIRE. CHIEF OFFICES,—OLDBURY WORKS, NEAR BIRMINGHAM. LONDON OFFICES,—6, STOREY'S GATE, GREAT GEORGE STREET, WESTMINSTER. NON-DIVIDEND FOREIGN MINES. THE BIRMINGHAM WAGON COMPANY (LIMITED) MANUFACTURE RAILWAY WAGONS of EVERY DESCRIPTION, for HIRE and SALE, by immediate or deferred payments. They have also wagons for hire capable of carrying 6, 8, and 10 tons, part of which are constructed specially for shipping purposes. Wagons in working order maintained by contract. EDMUND FOWLER, Sec. WAGON WORKS .- SMETHWICK, BIRMINGHAM.

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| Share | | 1 | ali | 1. 1 | Last . | Pr. | Busine | 98. 2 | Total | dir | 08. F | er | sha | re. Last | naid. | 1 |
|--------------|----------------------------------|-----|------|------|--------|-------|-----------|-------|-------|-----|-------|-----|------|----------|-------|----|
| 1500 | Alderlev Edge, c, Cheshire* | | , (| 0. | - | | | | 10 | 1 | 8 | 0 | 10 | 0. July | 1868 | 1 |
| 200 | Botallack, t. c, St. Just | 91 | 5 | 0 | _ | | | | 488 | 15 | 0 | 5 | | 0. May | | ı |
| 4000 | Brookwood, c, Buckfastleigh | . 1 | 1 11 | 0. | - | | | | | | 6 | | | 6Ang. | | 1 |
| 1000 | Bronfloyd, I, Cardigan* | 12 | 0 | 0 | - | | | | | | 0 | 0 | | 0Oct. | | 1 |
| | Bwich Consols, s-l, Cardigan | . 4 | 1 0 | 0., | _ | | | | | | 0 | | | 0June | | 1 |
| 6400 | Cashwell, I, Cumberland | . 1 | 10 | 0 | _ | | | | | | 0 | | | 6Aug. | | 1 |
| | Cargoll, s-l, Newlyn | 15 | | 7 | 21 | | 19 20 | | | 5 | 0 | 0 | 10 | 0. Oct. | 1868 | 1 |
| 1280 | Chanticleer, I, | . 0 | 7 | 8 | - | | | | 0 | | 6 | | | 6Oct. | 1868 | 1 |
| 2450 | Cook's Kitchen, c, Illogant | 19 | 14 | 9 | 13 | | 12 13 | | 1 | | 0 | | | O.Oct. | 1868 | 1 |
| | Creegbrawse and Penkevil, t | | | | - | | | | 2 | | 0 | | | April | | I |
| 867 | Cwm Erfin, I, Cardiganshire* | 7 | 10 | 0 | - | | | | 29 | | | | 15 | O. Oct. | 1868 | ı |
| | Cwmystwith, I, Cardiganshire | 60 | 0 | 0 | _ | | | | | 10 | 0 | 2 | 0 6 | Aug. | | ı |
| | Derwent Mines, s-l, Durham | 300 | 0 | 0 | - | | | | 177 | | | | | July | | ı |
| | Devon Gt. Consols, c, Tavistock† | 1 | 0 | 0 | 390 | | | | 1115 | | 0 | | | Sept. | | ı |
| 656 | Ding Dong, t, Gulvalt | 49 | 14 | 6 | 19 | | 17 19 | | | | | | | Sept. | | ı |
| | Dolcoath, c, t, Camborne | 128 | 17 | 6 | 370 | | 350 380 | | 857 | 10 | 0 | | | | 1868 | ı |
| | East Caradon, c, St. Cleert | | 14 | | 5 | | 5 514 | | | | 6 | | | July | | Ł |
| | East Darren, I, Cardiganshire | 32 | | 0 | - | :: | 0 0/4 | | 160 | | | | 0 0 | July | 1868 | ı |
| 128 | East Pool, t, c, Pool, Illogan | 24 | | 0 | - | | | | | | | | 0 0 | | 1868 | ı |
| 1906 | East Wheal Lovell, t, Wendron. | 3 | 9 | 0 | 9 | | 814 834 | | 4 | 1 | 6 | 0 1 | 0 0 | May | 1868 | ı |
| | Foxdale, l, Isle of Man* | 25 | 0 | 0 | _ | | 0/4 0/4 | | 72 | | | | | Sept. | | ŀ |
| | Frank Mills, I, Christow | 3 | 18 | 6 | 33 | | 31/4 31/4 | | 8 | | | | | Feb. | | ı |
| | Gawton, c, Tavistock | | | 6 | | | 11/2 11/2 | | 0 | | | | | Jan. | | ı |
| | Great Laxey, I, Isle of Man* | 4 | | 0 | 201/ | 2 | 01/2 211/ | | 9 | 5 | 0 | 0 1 | 0 0 | Sept. | 1868 | L |
| | Great Wheal Vor, t, c, Helstont | 40 | 0 | 0 | 14 | | 13 131/6 | | | 11 | 0 | 0 | 7 6 | Sept. | 1868 | ı |
| | Herodsfoot, I, near Liskeardt | 8 | 10 | 0 | 46 | | 44 46 | | 48 | | | | | Oct. | 1868 | L |
| | Hingston Down, c, Calstockt | | | 6 | - | | | | | | 0 | | | April | | L |
| | Levant, c, t, St. Just | 10 | | 1 | - | | | | 1095 | | 0 | | | July | | l |
| 400 | Lisburne, l, Cardiganshire | 18 | 15 | 0 | - | | | | 509 | | 0 | | | July | 1868 | ı |
| 3000 | Maes-y-Safn, l, Flint* | 20 | 0 | 0 | - | | | | 4 | | 0 | | | Oct. | 1868 | l |
| 9000 | Marke Valley, c, Caradon | | 10 | 6 | 83 | 1 | 91/4 91/4 | | 4 | | 0 | | | Oct. | 1868 | ı |
| | Minera Boundary, l, Wrexham* | 1 | 0. | 0 | - | • | -/4 -/10 | | 0 | 18 | 0 | 0 | | Mar. | 1866 | ı |
| 1800 | Minera Mining Co.1, Wrexham* | 25 | 0 | 0 | - | | 150 175 | | 239 | 13 | 0 | 6 | | Aug. | 1868 | ı |
| 20000 | Mining Co. of Ireland, c, l, cl | 7 | 0 | 0 | 141 | í 1 | 13% 131 | | | - | | 9 n | ct. | July | 1868 | L |
| | Mwyndy Iron Orest | 3 | 5 | 0 | - | | | | 0 | 8 | 6 | 0 | 2 (| Mar. | 1868 | ı |
| | Parys Mines, c, Anglesey* | 50 | 0 | 0 | - | | | | 162 | 10 | 0 | 2 1 | 10 6 | Aug. | 1868 | L |
| 12800 | Prince of Wales, t, Calstock | 0 | 12 | 6 | 23 | · · · | 38s. 40s | | 0 | | | | | Aug. | | ı |
| 1120 | Providence, t, Uny Lelantt | 10 | 6 | 7 | 28 | | 26 28 | | 85 | 12 | 6 | 0 1 | 0 0 | Sept. | 1868 | l |
| 512 | South Caradon, c, St. Cleert | 1 | 8 | 0 | - | | | | 597 | 10 | 0 | 5 | 0 0 | Oct. | 1868 | l |
| 6000 | South Darren, l, Cardigan* | 3 | | 6 | - | | | | 0 | | | | | Aug. | | ı |
| 937 | South Wh. Crofty, c, Illogan | | | 10. | 14 | | 12 13 | | 1 | 0 | 0 | 0 1 | 0 0 | Sept. | 1868 | ı |
| | So. Wh. Frances, c, Illog. tt | | | 9 | 20 | | 17 20 | | 374 | 13 | 6 | 1 | 0 0 | Mar. | 1868 | l |
| 804 | Summer Hill, I, Mold | | | 6 | _ | | | | 2 | | 6 | | | Feb. | 1868 | 1 |
| 6000 | Tincroft, c, t, Pool, Illogant | 9 | | 0 | 17 | | 16 17 | | 19 | 16 | 0 | 0 | 5 0 | Sept. | 1868 | L |
| 20 00 | Trumpet Cons., t, Helston | | | 0 | 15 | | 13 14 | | 13 | 10 | 0 | 0 1 | 0 0 | Oct. | 1868 | ľ |
| 3000 | W. Chiverton, I, Perranzabuloet | 10 | 0 | 0 | 62 | | 61 62 | | 29 | 7 | 6 | 2 | 0 0 | Aug. | 1868 | ı |
| \$000 | West Godolphin, t, c, Breage | 0 | 1 | 0 | - | | | | 0 | 2 | 0 | 0 | | Dec. | 1867 | l |
| 400 | W. Wheal Seton, c, Cambornet | 47 | 0 | 0 | 205 | | 190 195 | | 610 | 0 | 0 | 5 | | Oct. | 1868 | ١. |
| 512 | Wheal Basset, c, Illogant | 5 | 2 | 6 | 65 | | 70 75 | | 632 | 10 | 0 | 1 | | June | | l |
| 1024 | Wheal Friendship, c, Tavistock | 20 | | 0 | - | | | | 300 | 10 | | | | | 1866 | ı |
| | Wheal Jane, s-l, Kea | 10 | | 0 | 43 | | 40 42 | | | - | | 1 | 0 0 | July | 1868 | ı |
| | Wheal Kitty, t, St. Agnes | 5 | 4 | 6 | 33 | | 3 31/2 | | 8 | | | | | Aug. | | 1 |
| 1024 | Wheal Mary Ann, I, Menheniott | 8 | 0 | 0 | - | | 19 20 | | 66 | | | | | Sept. | | |
| 80 | Wheal Owles, t, St. Just: | 70 | 10 | 0 | *0 | •• | | | 000 | 18 | 0 | 7 1 | 0 0 | | 1868 | ı |
| 396 | Wheal Seton, t, c, Camborne | | | 0 | 50 | | 50 521/2 | | | | | | | | 1868 | ı |
| 8000 | Whitewell Lead, Clitheroe | 0 | | 0 | 111/ | -3 | 109/ 11 | ** | 1 | | | | | Dec. | 1867 | ı |
| 7000 | Wicklow, c, i, Wicklow | 2 | 10 | 0 | 11/2 | X a | 10% 11 | | 49 | | U | U | 0 (| Oct. | 1868 | 1 |
| | MODELO | NT | D | T 37 | In | 2.00 | D 31 | TAT | m c | | | | | | | |
| | FOREIG | 17 | D | IV. | IDI | N | D M | IN | B D. | | | | | | 1 | ı |

| 35000 | Alamillos, I, Spain*1 | 2 | | 0 | | | 11/4 11/2 | | 0 46 0 20Sept. 1868 |
|--------|---------------------------------|-------|-----|------|------|-----|-----------|----|------------------------------|
| 20000 | Australian,c, South Australia † | 7 | 7 | 6 | - | | | | 0 1 6 0 0 6 Aug. 1868 |
| 16000 | Cape Copper Mining*† | 7 | 0 | 0 | - | | 12 1214 | | 3 2 6 0 10 0 Feb. 1868 |
| 80000 | Central American Association*† | 1 | 10 | 0 | - | | 1 11/6 | | |
| 76169 | Don Pedro North del Rey * 1 | | | 0 | 4 | | 33/4 4 | | 1 0 3 0 3 0 Sept. 1868 |
| 70000 | English and Australian, ct | | | 0 | - | | -/- | | 0 1 0 Feb. 1868 |
| | Fortuna, I, Spain*† | 2 | | 0 | - | | 11/2 2 | | 1 11 10. 0 2 6. Sept. 1868 |
| 20000 | Gen.MiningAssoc., NovaScotiat | 20 | | 0 | _ | | -/4 - | | 28 10 0., 0 15 0., June 1867 |
| | Gonnesa, l.* | 5 | | 0 | - | | | | 10 per cent Aug. 1868 |
| | Kapunda Mining Co., Austratt | 1 | | 0 | _ | | | | 0 1 10, 0 0 6. Nov. 1868 |
| 68000 | Kapunda wining Co., Austraja | 9 | | 0 | - | | 01/ 9 | ** | |
| | Linares, t, Spain*t | 0 | | | - | | 21/2 3 | ** | 11 15 0 0 3 4. Sept. 1868 |
| 50000 | Panulcillo, c, Chili*† | 300 | | 0 | - | | | | 10 per cent Yearly. |
| | Peel River Land and Mineral*† | | | 0 | - | | | | |
| | Pontgibaud, s-l, Francet | 20 | | 0 | _ | | 10 12 | | |
| | Port Phillip, g, Clunest | 1 | | 0 | 2 | | 13/4 2 | | 1 3 0 0 1 0Oct. 1868 |
| 120000 | Scottish Australian Min. Co.t. | 1 | | 0 | | | 1 11/8 | | 8 per cent May 1868 |
| | St. John del Rey, Brazil*† | 15 | | 0 | 18 | | 17 18 | | 81 10 0 4 5 0 Dec. 1867 |
| 13500 | Vancouver Coal Mining*† | 6 | | 0 | 91/4 | | 81/2 9 | | 2 2 6Nov. 1868 |
| 50000 | Victoria (London) [25000 £1 pd. | , 250 | 000 | 128. | 6d. | pd. | | | 0 97 0 07July 1868 |
| 40000 | West Canada Mining Co | 1 | 0 | 0 | _ | | 1 | | 0 19 6 . 0 9 6 May 1986 |

| | NON-DIVIDEND FOREIGN MINES, | | |
|--------|--|------------|------|
| Shares | Mines. Paid. Last Pr. Bus. don | e. Last Co | 22. |
| 50000 | Anglo-Argentine, s, Argentine Republic* 1 0 0 | | |
| 100000 | Anglo-Brazilian, g*t 0 10 0 % 38 1/2 | Nov. 18 | 366 |
| 19500 | Anglo-Italian, g*† 0 10 0 1/2 1/3 | Jan. 18 | |
| 90000 | Australian United, g 1 00 | Mar. 18 | |
| 9464 | Burra Burra, c, South Australia! 5 0 0 | ** | 100 |
| 90000 | | | 886 |
| 20000 | | | |
| 10000 | Cobre Copper Company, c, Cubatt* 45 10 0 | Jan. 18 | |
| 10000 | Copiapo Mining Company, Chilit | ******** | 100 |
| 10000 | Copiapo Smelting, Chili* 10 0 0 | April 18 | 200 |
| 10000 | Copper Miners' Co. of South Australia* [150 £100 pd., 150 £70 pd.] | Nov. 18 | |
| 1 5000 | El Chico Silver Mining and Reduction Company* 5 0 0 | Nov. 18 | |
| 40000 | Fortune Copper Mining Co. of Western Australia 2 0 0 | Fully p | |
| 40000 | Frontino and Bolivia, g, New Granada*† 1 17 6 %14s. 16s. | Mar 16 | 000 |
| 20000 | Great Barrier Land, Mining, &c., New Zealand 5 00 | Fully p | |
| 10000 | Great Northern, c, South Australia | Sept. 18 | |
| 80000 | | June 18 | |
| 50000 | Javali, g , Nicaragua | Dec. 18 | |
| | | Feb. 18 | |
| 83640 | | Dec. 18 | |
| | | Dec. 1e | 101 |
| | | Washing or | |
| 15000 | | Fully p | a. |
| 80000 | | ***** 10 | |
| | Rhenish Consolidated, 1 [6000 £5 pd., 4178 £2 10s. pd.] | May 18 | |
| 100000 | Rossa Grande, g, Brazil*† 0 14 0 1%1% 1% | | |
| | | Sept. 18 | |
| | | Fully p | |
| | | Oct. 18 | |
| 100000 | | Oct. 18 | 68 1 |
| | Terreseu, s-l, Isle of Sardinia 2 00 | ** | |
| | | May 18 | 68 |
| 30000 | Val Antigoria, g, Italy* 1 26 | | |
| 6000 | Val Sassam, s, c, l, Italy* + 8 00 | Aug. 18 | |
| 45000 | | Fully p | |
| 20000 | Washoe, g, Nevadat 5 00 | Fully p | |
| 80000 | Worthing, c, South Australia ** | Fully p | |
| 75000 | Yorke Peninsula, South Australia 1 00 | Fully p | |
| 45000 | Yudanamutana, c, South Australia*12 3 00 2% 2 2% | Fully p | d. |
| | | | |

| NON-DIVIDEND M | INES. | |
|--|-------------------------------------|-----|
| Shares. Mines. | Paid. Last Pr. Bus. done. Last Call | 1. |
| 12000 Brynpostig, Montgomery, l* | | |
| 1000 Carn Brea, c, t, Illogant | | 8 |
| 3000 Chiverton, l. Perranzabuloe | | |
| 3000 Chiverton Moor, l, Perranzabuloe | | 8 |
| 2880 Clifford Amalgamated, c. Gwennapt | | 8 |
| 12800 Drake Walls, t, Calstockt | | 6 |
| 512 East Basset, c, Redrutht | 35 15 0 8% 8 9 July 186 | 8 |
| 6000 East Carn Brea, c. Redruth! | | |
| 6000 East Grenville, c, Camborne | | 8 |
| 4000 East Wheal Russell, c, Tavistock† | 13 13 6 Oct. 186 | 8 |
| 6144 Gonamena, c, St. Cleer | 7 11 3Oct. 186 | 8 |
| 5000 Great North Downs, c, Redruth | 6 13 0 2 2 214 Feb. 186 | |
| 4800 Great Retallack, s-l, b, Perranzabuloe | 2 19 6 3 Oct. 186 | |
| 5143 Great South Tolgus, c, Redruth | 1 8 0 April 186 | 8 |
| 1798 Great Wheal Fortune, t, Breage | 31 7 4 Mar. 186 | |
| 400 New Wheal Seton, c, Camborne | 60 10 0 52565756 April 186 | 8 |
| 3457 North Downs, c, Redruth | 5 8 10 Jan. 186 | 8 |
| 695 North Roskear, c, Camborne | 60 90 12 10 13 Sept. 186 | 8 |
| 5936 North Treskerby, c, St. Agnes | 1 9 0 ½ 78. 98Dec. 186 | 0 |
| 3000 North Wheal Chiverton, I, Perranzabuloe | 4 10 0 Nov. 186 | |
| 1024 Rose and Chiverton United, l, Newlyn | 6 0 0 Aug. 186 | 8 |
| 6138 South Condurrow, t, c, Camborne | 4 8 6 34 17s. 19s Oct. 186 | 8 |
| 940 St. Ives Consols, t, St. Ivest | 10 15 0 8 6 8 Nov. 186 | 4 |
| 920 Stray Park, c, t, Cambornett | 45 58 5 79 April 186 | 5 |
| 548 Trelyon Consols, t, St. Ives | 16 0 0 4 4%Dec. 1000 | 3 |
| 6000 West Basset, c, Illogant | 2 0 0 May 186 | |
| 1024 West Caradon, c, St. Cleertt | 25 0 0 3 Nov. 186 | 3 |
| 12800 West Drake Walls, c, Calstock | 0 6 0 9s Nov. 186 | 21 |
| 2582 West Great Work, t, Breage | 8 11 0 2½ June 1860 | 41 |
| 6000 West St. Ives, t, c, St. Ives | | 1 |
| 512 West Wheal Frances, t, Illogan | | ٠ ا |
| 5000 West Wheal Kitty, t, St. Agnes | 3 4 0 Nov. 186 | 41 |
| 6000 Wheal Agar, c, Illogan | 1 10 0 178 /8 ./8 | |
| 512 Wheai Builer, c, Redruth † | 21 0 0 11 0 00 00 7 1000 | á |
| 811 Wheal Emily Henrietta, c, Illogan | 20 0 0 11 21 22 22 22 22 200 | 2 |
| 5724 Wheal Grenville, c, Cambornet | | 1 |
| 1040 Wheal Trelawny, s-l, Liskeardt | | 9 |
| 5000 Wheal Unv. t. c. Redruth | 10 14 6 334 314 31/2 Oct. 180 | . 0 |

NON-DIVIDEND MINES.

| NON-DIVIDEND MINES, Shares. Mines. Paid, Last Pr. Bus description |
|--|
| 4000 Rallacorkish I of Man 7 cm 4 0 0 |
| 4000 Bedford Consols, c, Tavistock 3 0 6. 36. 36. 36. 4000 Bedford United, c, Tavist. 2 13 8. 24. 134. 234 1248 Boscaswell, t, c, St. Just. 7 6 0. 5000 Bottle Hill, t, Plympton 1 14 6. 5000 Bryn Gwigo, I, Filint 0 18 0. 1200 Bryn Gwigo, I, Filint 0 18 0. 7500 Bryn Gwigo, I, Filint 0 18 0. 7500 Bryn Gwyn, I, Mold* 9 0 0. 7500 Brynstwith. 9 0 0 0. |
| 5000 Bottle Hill, t, Plympton 1 14 6 |
| 1200 Bryn Gwyn, l, Mold* 2 9 0 0 . — 7500 Brynystwith, l* 0 10 0 . — |
| 1000 Budnick Consols, c 2 7 0 |
| 6000 Bwadrain Cons., s-l, Cardig. 3 2 0 30000 Caldbeck Fells, Cumberld. 1 15 0 11s9s. 11s. 1000 Camborne Consols. |
| 11000 Cape Cornwall, t. c* [8000 £910s, pd. 2000 er. |
| 914 Caradon Consols, c, St, Cleer 32 13 6. |
| 6000 Carn Camborne & Comborne & Comborne |
| 2000 Carimarth Granite Co.*. 2000 Carrmarth (3200 £2)½ pd., 16800 £1 ½ pd.] 2500 Central Minera, I. Wrexham* 3 1 6. 1600 Central Snailbeach l* 1 0 0. 3000 Chiverton Valley, I. Perranz. 2 0 0. 3½ 3½ 3½ 3½ 3½ 3½ 3½ 3½ 3½ 3½ 3½ 3½ 3½ |
| 16000 Central Snailbeach l* 1 0 0 — |
| |
| 50000 Connorree, c, sul, Wicklow. 1 0 0 48 |
| 1000 Cornwall Hematite Co.* 5 0 0 |
| 1055 Craddock Moor, c, St. Cleer: 13 15 0 12000 Crelake, c, Tavistock 3 12 0 |
| 6000 Cuddra, t, St. Austell 5 10 0 |
| 1000 East Basset and Grylls, t . 3 5 0 |
| 4000 East Chiverton, l, Perranz. 3 0 9. 1½. 1 1½ 4000 E. Gunnislake & S. Bed. c. 10 19 0 |
| 5000 E. Rosewarne, c. t Gwinger 9 19 0 |
| 6000 East Snaefell, l, I, of Man*. 3 0 0 |
| 1190 E. Wh. Agar, c, St. Cleer 12 17 0 |
| |
| 6000 Ebury Lead Min. Co., Flint* 1 15 0 — 6000 Fortesoue Cons., c, Taylstock 0 12 6 — |
| 940 Fowey Con. c, Tywardreatht 5 4 6. — 6 15 3. — |
| 6000 Fortesche Cons., c, Tavistock 0 12 6 |
| 5700 Goginan, Cardigan, 1 12 10 0 |
| 6000 Gothic, s-l, Cardigan* 2 10 0 — 486 Grambler & St. Aubyn, ctt 74 0 0 — |
| 10000 Great Cwmsymlog, 3-1* 1 15 0 — 4096 Great Caradon, c, St. Ive 4 1 0 — 5000 Great Mong, I Ivia combons |
| 19500 Gt No Lavov Island Manys |
| 15000 Great Rhosesmor, I 5 0 0 |
| 6000 Gt.S. Chiverton, s-I, Perranz 1 18 6 134114 114 8313 Gt. Wh. Baddern, t, Devoran 7 17 6 |
| 10240 Gunnislake (Clitters'), t. c., 4 19 0 |
| 6068 Gwydyr Park, l, Llanrwst . 1 11 0 |
| 6000 Mudling, Lostwithiel 4 7 0 - 6000 Mid. Males at 1 2 10 0 - 6000 Mandling, Lostwithiel 4 7 0 - 6000 Mid. Males at 2 10 0 - 6000 Mandling, Lostwithiel 4 7 0 - 6000 Mid. Males at 2 10 0 - 6000 Mid. Mid. Mid. Mid. Mid. Mid. Mid. Mid. |
| 6000 Maudlin, c, Lostwithiel 4 7 0 — 6000 Mid-Wales, s-l, * 2 10 0 — |
| 4662 Minera U., l* [2500 £4 p., 2162 £2 p.] — |
| 6000 Matdlin, c, Lostwithiel. 4 7 0 |
| 12800 Nether Hearth* [6400 £1 pd., 6400 2s. pd.] |
| 1500 New Chiverton, I, Perranz 0 17 0 |
| 12800 Nother Hearth * [6400 £1 pd., 6400 28. pd.] 6000 Now Birch Tor & Vitifer, 'L. 1 13 6. 1500 Now Chiverton, 'I, Perrauz 0 17 0 6000 Now Clifford, c., Gwennap* 2 15 0 24000 New Cornish [12000 £1 pd., 12000 168. pd.] 6400 N. Crow Hill, 'I, St. Stephen. 3 6 6 6514 Now E. Russell, c. Tavistock 0 12 6 20000 New Gt. Cons., c, Tavistock* 0 17 6 3000 New Huntingdon, 'I Devon. 0 1 0 |
| 6514 New E. Russell, c, Tavistock 0 12 6 |
| 3000 New Huntingdon, t, Devon. 0 10. — |
| 3000 New Huntingdon, t Devon. 0 1 0 |
| 667 New Trevenen, t, Wendron, 12 1 6 |
| 2000 N. Wh. Towan, c, t, Wendron 1 10 0 |
| |
| 2000 North Levant, t. c. St. Just. 10 12 0 11 101/ 11 |
| 8240 North Pool, c, Illogan 6 8 6 |
| 1935 No. Shepherds, l, Newlyn*. 6 10 0 — |
| 6000 North Wheal Basset, c, tt 5 0 0 5610 N. Wh. Crofty, c, Illogant 3 11 3 114114 1541 |
| 12288 Okel Tor, c, Calstock 2 7 4 |
| 8000 Old Gunnislake.c, Calstock 3 9 6 — 6400 Par Consols, c, St. Blazey†‡ 2 14 6 — |
| 5000 Pendeen Consols, c, St. Just., 7 5 0 |
| 2177 Penhale Wh.Vor, t, c, Breage 6 2 6 — |
| 5000 Penhalls, t, St. Agnes 3 0 0 —3½ 3½ 172 Polberro, t, St. Agnes 15 0 0 — |
| 4600 Redmoor c t Callington 1 10 c s |
| 3000 Rhydtalog, s-l, Cardigan . 0 5 0 |
| 6000 Roaring Water, c* |
| 5915 Rosewall Hill & Ransom, c 3 5 0 — 10000 Royalton, t, St. Columb 1 1 0 1581½ 15 |
| 12000 Sortridge Cons., c, Tavistk. † 2 5 6 |
| 3000 So. Chiverton, s, t, Ferranz. 6 2 6 |
| 3000 So. Fowey, c, Tywardreath 0 15 0 |
| 3395 So. Herodsfoot, I, Liskeard 4 10 0 |
| 6000 South Wheal Grenville, t, c. 1 5 6 |
| 400 So. Wh. Seton, c, Camborne 83 13 0 — 236 Spearne Consols, t, St. Just 4 4 4 — |
| 400 So. Wh. Seton. c, Camborne 83 18 0 |
| 8771 St. Just Amalg., t,* [6000 £3 10s. pd.,2771 £2 5s. pd. 300 Steeple Aston Iron Ore Co 7 0 0 |
| 7000 Stiperstones, I, Salop* 5 10 0 |
| 3500 Tin Hill, t, St. Austell 1 12 0 |
| 1943 Treworlis, t, Wendron 11 15 4 |
| 4200 Vigra and Clogau, c, Dolg. *‡., 5 10 0 2 2500 West Briton, Crowan 1 2 6 |
| 256 West Damsel, c, Gwennap 38 10 0 — |
| 12000 W. Maria & Forces., c, Lam 3 13 0 — 12800 West Prince of Wales, c 0 11 0 — |
| 1000 West Rose Down, C. Linking, 22 0 0 |
| 4096 W. Wh. Tremayne, St. Erth 0 12 0 |
| 6000 Wheal Crebor, c, Tavistock. 2 9 0. 1/298, 118. 4000 Wh. Emma, c, Buckfastleigh 3 19 0 |
| 6000 Wheal Ida, s-l, St. Ive 1 6 6— 1024 Wh. Kitty, t, Uny Lelantt. 3 10 6 6 5 6 |
| 896 Wh. Margaret, t. Uny Le.t. 18 17 6. 7 5 6 728 Wheal Margery, St. Ives, t, c 27 4 0 |
| 6000 Wheal Mary Florence, co. 2 60 |
| 6000 Wheal St. Vincent, s 0 10 |
| 1920 Wh. Trannack, c, Sithney. 1 13 3 — 1200 Wheal Trevenna, t, c* 10 0 0 — |
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MISCELLANEOUS.

60000 Anglo-American Telegrin. † 10 0 0. 92 .213/6 22 10000 Arklow Chemical Works, I. 1 0 0. 2 .30 93 Stock Atlantic Telegraph. .100 0 0. 32 .30 93 Stock Ditto, 8 per cent. .100 0 0. 79 .758/761/6 80000 Ebbw Vale Iron Co. † 27 10 0. 14 .144/15/2 2500 Laxey Neath Smelting Co. * 3 10 0. 1 .145/15/2 London Gen. Omnibus † 4 0 0. 2 .13/6 23/6

 $b, \, {\rm blende} \, ; \, cl \, \, {\rm coal} \, ; \, c, \, {\rm copper} \, ; \, g, \, {\rm gold} \, ; \, l, \, {\rm lead} \, ; \, s, \, {\rm silver} \, ; \, sl, \, {\rm slate} \, ; \, sl, \, {\rm silver-lead} \, ; \, l, \, {\rm tin} \, ; \, s, \, {\rm zinc} \, ,$

Companies marked thus * have been incorporated with Limited Liability; those marked † have been admitted on the Stock Exchange, those marked thus ‡ have paid Dividends.

London: Printed by Richard Middleton, and published by Henry English (the proprietors), at their office, 26, Fleet Street, E.C., where all communications are requested to be addressed.—November 14, 1868.